

SPARTON CORP
Form 11-K
June 24, 2016

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 11-K

☒ ANNUAL REPORT PURSUANT TO SECTION 15 (d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the six-months ended December 31, 2015
or

☐ TRANSITION REPORT PURSUANT TO SECTION 15 (d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the transition period from to
Commission File number 1-1000

A. Full title of the plan and the address of the plan, if different from that of the issuer named below:
SPARTON CORPORATION 401(k) PLAN

B. Name of issuer of the securities held pursuant to the plan and the address of its principle executive office:
SPARTON CORPORATION
425 N. Martingale — Suite 1000
Schaumburg, IL 60173-2213

Sparton Corporation 401(k) Plan
Financial Statements and Supplemental Schedule
Six-Months Ended December 31, 2015 and Year Ended June 30, 2015

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Report of Independent Registered Public Accounting Firm

To the Members of the Investment Review Committee
Sparton Corporation 401(k) Plan
Schaumburg, Illinois

We have audited the accompanying statements of net assets available for benefits of the Sparton Corporation 401(k) Plan (the "Plan") as of December 31, 2015 and June 30, 2015, and the related statements of changes in net assets available for benefits for the six-month period ended December 31, 2015 and year ended June 30, 2015. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Plan is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

As discussed in Note 1, the Plan changed its fiscal year to a calendar year. With this change, the Plan had a short fiscal period of July 1 to December 31, 2015, and subsequent to this short period, will then operate for a full calendar year for 2016 forward. As also discussed in Note 1, the Sparton Real Time Enterprises Inc. 401(k) Plan merged into the Plan effective July 1, 2015, the Sparton Aubrey Group Inc. Retirement Plan merged into the Plan effective March 1, 2015, and the Sparton Beckwood Services Inc. LLC 401(k) Plan merged into the Plan effective September 1, 2014.

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2015 and June 30, 2015, and the changes in net assets available for benefits for the six-month period ended December 31, 2015 and year ended June 30, 2015, in conformity with accounting principles generally accepted in the United States of America.

The accompanying supplemental Schedule of Assets (Held at End of Year) as of December 31, 2015 has been subjected to audit procedures performed in conjunction with the audit of the Plan's financial statements. The supplemental schedule is the responsibility of the Plan's management. Our audit procedures included determining whether the supplemental schedule reconciles to the financial statements or the underlying accounting and other records, as applicable, and performing procedures to test the completeness and accuracy of the information presented in the supplemental schedule. In forming our opinion on the supplemental schedule, we evaluated whether the supplemental schedule, including its form and content, is presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. In our opinion, the supplemental schedule is fairly stated, in all material respects, in relation to the financial statements as a whole.

/s/ BDO USA, LLP

Grand Rapids, Michigan
June 24, 2016

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Statements of Net Assets Available for Benefits

	December 31, 2015	June 30, 2015
Investments:		
Money market fund	\$1,446	\$238,789
Mutual funds	36,656,756	37,795,091
Common/collective trust	6,350,374	3,307,267
Sparton Corporation common stock	2,098,259	3,020,843
Total investments	45,106,835	44,361,990
Notes receivable from participants	1,572,560	1,390,632
Net assets available for benefits	\$46,679,395	\$45,752,622
See accompanying notes to financial statements.		

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Statements of Changes in Net Assets Available for Benefits

	December 31, 2015	June 30, 2015
Additions		
Investment income:		
Dividend income from mutual funds	\$725,926	\$1,598,982
Net (depreciation) in fair value of investments	(2,616,905)	(531,447)
Net investment (loss) income	(1,890,979)	1,067,535
Interest income from notes receivable from participants	30,661	48,388
Contributions:		
Participant	2,168,582	3,817,097
Employer	725,619	1,315,291
Rollovers	125,543	790,799
Total contributions	3,019,744	5,923,187
Total Additions	1,159,426	7,039,110
Deductions		
Benefits paid directly to participants	2,157,502	3,655,313
Deemed distributions	70,036	92,405
Corrective distributions	38,719	0
Administrative expenses	21,114	12,385
Total Deductions	2,287,371	3,760,103
Net (decrease) increase	(1,127,945)	3,279,007
Plan Mergers	2,054,718	4,759,044
Net Assets Available for Benefits, beginning of year	45,752,622	37,714,571
Net Assets Available for Benefits, end of period	\$46,679,395	\$45,752,622
See accompanying notes to financial statements.		

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Notes to Financial Statements

1. Plan Description

The following description of Sparton Corporation 401(k) Plan (the “Plan”) provides only general information. Participants should refer to the Plan Agreement or Summary Plan Description for a more complete description of the Plan’s provisions.

General

The Plan includes all eligible employees of Sparton Corporation and its wholly owned United States subsidiaries (referred to as “the Company”). The Plan is a defined contribution plan covering employees of the Company who have attained the age of 20 and have completed at least 30 days of service (effective July 1, 2015, at least 60 days of service). The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA).

Changes in Reporting Periods and Trustees

The Plan changed its fiscal year end to a calendar year end. With this transition, the Plan has a six-month fiscal period of July 1 to December 31, 2015. Subsequent to this period, the Plan will then operate for the twelve month calendar year beginning January 1, 2016 and for each year thereafter.

Effective November 23, 2015, the Plan’s trustee was changed to Merrill Lynch, Pierce, Fenner & Smith Incorporated (“Merrill Lynch”) from SunTrust Banks, Inc. (“SunTrust Bank”). In conjunction with this change, the Plan’s assets were frozen for transactions from November 13 to December 10, 2015. On December 11, 2015, the Plan resumed normal and recurring operations.

Plan Acquisitions and Mergers

On January 20, 2015, the Company acquired Real Time Enterprises, Inc. Upon acquisition, the Real Time Enterprises, Inc. 401(k) Profit Sharing Plan was renamed the Sparton Real Time Enterprises, Inc. 401(k) Plan (the “Real Time Plan”). On July 24, 2015, all of the Real Time Plan assets totaling \$2,054,718 were merged into the Plan. As a result of the merger, Real Time Plan participants were allowed to participate in the Plan effective July 1, 2015.

On March 17, 2014, the Company acquired Aubrey Group, Inc. Upon acquisition, The Aubrey Group Inc. Retirement Plan was renamed the Sparton Aubrey Group Inc. LLC Retirement Plan (the “Aubrey Plan”). On March 4, 2015, all of the Aubrey Plan assets totaling \$2,027,984 were merged into the Plan. As a result of the merger, Aubrey Plan participants were allowed to participate in the Plan effective March 1, 2015.

On December 11, 2013, the Company acquired Beckwood Services, Inc. Upon acquisition, the Beckwood Services 401(k) Plan was renamed the Sparton Beckwood Services, Inc. LLC 401(k) Plan (the “Beckwood Plan”). On September 3, 2014, all of the Beckwood Plan assets totaling \$2,731,060 were merged into the Plan. As a result of the merger, Beckwood Plan participants were allowed to participate in the Plan effective September 1, 2014.

The table below notes the Company’s United States fiscal 2015 acquisitions and the dates that employees of the acquired businesses were allowed to participate in and to rollover previous 401(k) and other retirement savings into the Plan.

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Company	Acquisition Date	Employees Allowed to participate in the Plan
Electronic Manufacturing Technology, LLC	July 9, 2014	January 1, 2015
Industrial Electronic Devices, Inc.	December 3, 2014	December 3, 2014
Argotec, Inc.	December 8, 2014	December 8, 2014
Real Time Enterprises, Inc.	January 20, 2015	July 1, 2015
KEP Marine	January 21, 2015	January 21, 2015
Hunter Technology Corporation	April 14, 2015	January 1, 2016

Contributions

Eligible employees may elect to contribute up to 100% of their compensation, subject to certain limitations. Effective July 1, 2015, the Plan also offers Roth 401(k) contributions as an alternative to traditional pre-tax contributions. Participants may also make rollover contributions of amounts representing distributions from other qualified retirement plans. The Plan provides that the Company may contribute, on a discretionary basis, contributions in the form of matching contributions or non-elective contributions. During each of the six month ended December 31, 2015 and the fiscal year ended June 30, 2015 periods, the Company matched 50% of participants' contributions up to 6% of their eligible compensation. There were no non-elective contributions made to the Plan during either reporting periods presented. All contributions are subject to certain limitations of the Internal Revenue Code.

Participant Accounts

Each participant account is credited with the participant's and the Company's contributions, as well as an allocation of Plan earnings or losses. Investment earnings and losses are credited to each participant's account on a daily basis based upon the performance of the funds in that participant's account. Participants direct the investment of their accounts into various investment funds offered by the Plan. The Plan currently offers various mutual funds, common/collective trusts, and the Company's common stock as investment options for participants. The benefit to which a participant is entitled is the vested benefit that can be provided from the participant's account.

Diversification

Participants may invest both employee and employer contributions in any of the available investment options under the Plan, which includes the Company's common stock.

Participant Loans

Participants may borrow up to the lesser of \$50,000 or 50% of their vested account balance, excluding Company common stock. The loans are secured by the balance in the participant's account and bear interest rates that range from 4.25% to 9.25%, which rates represented the Prime Rate plus one percent at the time that they were originated. Loans must be repaid within five years with the exception of loans for a primary residence, which must be repaid within 15 years. Principal and interest are paid ratably through regular payroll deductions.

Vesting

Participants are immediately vested in their voluntary contributions plus actual earnings thereon. Vesting on employer matching contributions and employer non-elective contributions made prior to January 1, 2011 is based upon years of credited service, becoming fully vested after five years of credited service. Employer matching contributions made after January 1, 2011 are immediately 100% vested. Employer non-elective contributions made after January 1, 2011 vest based upon years of credited service, becoming 100% vested after five years of credited service.

Payment of Benefits

In the event of normal, early, or disability retirement of a participant, termination of employment or in the event of death, the participant or beneficiary can elect to receive a lump sum payment equal to their vested account balance or, if the vested account balance exceeds \$5,000, maintain their account in the Plan on a tax deferred basis until the participant

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reaches age 70 1/2. Under certain hardship conditions, a participant may be allowed to withdraw all or a portion of their contributions.

Forfeitures

Forfeitures consist of the non-vested portions of terminated participants' accounts. If a participant was subsequently rehired prior to five one-year consecutive breaks in service, forfeitures may be reinstated to the participant's account. Forfeitures are held by the Plan and become available immediately to pay administrative fees related to the Plan. No forfeitures were used to pay Plan expenses for the six months ended December 31, 2015 or the fiscal year ended June 30, 2015 periods, respectively. The unused forfeiture balance amounted to \$49,075 and \$16,502 at December 31, 2015 and June 30, 2015, respectively.

Administrative Fees

The Company pays certain administrative costs of the Plan, that are not paid through forfeitures, associated with any professional services provided to the Plan, and the cost of communications to the participants. Administrative expenses recorded in the Plan represent trustee fees and record keeping fees paid directly from the Plan to the Plan's trustee. Loan fees are deducted directly from the participants' accounts.

2. Summary of Significant Accounting Policies

Recent Accounting Pronouncements

In May 2015, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update 2015-07 "Disclosures for Investments in Certain Entities that Calculate Net Asset Value Per Share (or its Equivalent)," ("ASU 2015-07"). ASU 2015-07 removes the requirement to categorize within the fair value hierarchy investments for which fair values are estimated using the net asset value practical expedient provided by Accounting Standards Codification 820, Fair Value Measurement. Disclosures about investments in certain entities that calculate net asset value per share are limited under ASU 2015-07 to those investments for which the entity has elected to estimate the fair value using the net asset value practical expedient. ASU 2015-07 is effective for fiscal years beginning after December 15, 2015, with early adoption permitted.

In July 2015, the FASB issued Accounting Standards Update 2015-12 "Plan Accounting: Defined benefit Pension Plans (Topic 960), Defined Contribution Plans (Topic 962), Health and Welfare Benefit Plans (Topic 965)" ("ASU 2015-12"). The amendments in Part I of the ASU eliminated the requirements that employee benefit plan measure the fair value of fully benefit -responsive investment contracts and provide the related fair value disclosures, rather these contracts will be measured and disclosed only at contract value. The amendments in Part II of the ASU will require plans to disaggregate their investments measured using fair value only by general type, either on the financial statements or in the notes. Part II also eliminated the requirement to disclose the net appreciation/depreciation in fair value of investments by general type and the requirements to disclose individual investments that represent 5% or more of net assets available for benefits. The amendments in Part III of the ASU 2015-12 provide a practical expedient to permit plans to measure its investments and investment related accounts as of a month-end date closest to its fiscal year for a plan with a fiscal year end that does not coincide with the end of a calendar month. The amendments in the ASU 2015-12 are effective for reporting periods beginning after December 15, 2015, with early adoption permitted.

Plan management reviewed both ASU 2015-07 and ASU 2015-12 and decided to early adopt both standards at June 30, 2015 as it believed it will simplify Plan accounting and its presentation in the financial statements. As such, the accounting and disclosures in these financial statements and notes follow ASU 2015-07 and ASU 2015-12.

Basis of Accounting

The accompanying financial statements have been prepared under the accrual method of accounting.

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Use of Estimates

The preparation of financial statements in conformity with generally accepted accounting principles in the United States of America requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. Actual results could differ from those estimates.

Risks and Uncertainties

The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect participants' account balances and the amounts reported in the statements of changes in net assets available for benefits.

Concentration of Investments

Included in investments at December 31, 2015 and June 30, 2015 are shares of the Company's common stock amounting to \$2,098,259 and \$3,020,843, respectively. This investment represented approximately 5% and 7% of total investments at December 31, 2015 and June 30, 2015, respectively. A significant decline in the market value of the Company's stock would significantly affect the net assets available for benefits.

Investment Valuation and Income Recognition

Plan assets invested in mutual funds and Company common stock are stated at aggregate fair value based upon quoted market prices.

The Plan holds shares in a money market fund which is valued at the net asset value ("NAV") of the shares held by the Plan at year-end, which is determined based on the fair value of the underlying investments, primarily high quality, short-term fixed income securities issued by banks, corporations, and the United States government.

The Plan holds units of common/collective trusts ("CCT") with Federated Capital Preservation Fund IP ("Federated"), Putnam Stable Value Fund ("Putnam") and Putnam Stable Value Fund GM ("Putnam") that have investments in fully benefit-responsive investment contracts. The fair value of the Plan's interest in the CCTs is based on audited financial information reported by the issuers, Federated Investors Trust Company for the Federated CCT, and Putnam Fiduciary Trust Company for the Putnam CCTs. The issuers determine fair value based on the underlying investments (primarily conventional, synthetic and separate account investment contracts, and cash equivalents). The value of the CCTs represents contributions plus earnings, less participant withdrawals and administrative expenses. Participant-directed redemptions for the Federated and the Putnam CCTs have no restrictions; the Plan, however, is required to provide a one-year redemption notice to liquidate its entire share in each of the respective funds.

Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. No allowance for credit losses has been recorded as of December 31, 2015 and June 30, 2015. Delinquent participant loans are recorded as distributions on the basis of the terms of the Plan agreement.

Purchases and sales of investments are recorded on a trade-date basis. Dividends are recorded on the ex-dividend date. Interest income is recorded on the accrual basis. Net appreciation (depreciation) includes the Plan's gains and losses on investments bought or sold as well as held during the year.

Payment of Benefits

Benefits are recorded when paid.

3. Fair Value Measurements

The Plan classifies its investments into Level 1, which refers to securities valued using quoted prices in active markets for identical assets; Level 2, which refers to securities not traded on an active market but for which observable market inputs are readily available; and Level 3, which refer to securities valued based on significant unobservable inputs.

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Assets and liabilities are classified in their entirety based on the lowest level of input that is significant to the fair value measurement. The following table sets forth, by level within the fair value hierarchy, a summary of the Plan's investments measured at fair value on a recurring basis at December 31, 2015 and June 30, 2015:

December 31, 2015					
	Fair Value	Level 1 Inputs	Level 2 Inputs	Level 3 Inputs	
Money market fund	\$ 1,446	\$ 1,446	\$ —	\$ —	—
Mutual funds	36,656,756	36,656,756	—	—	—
Sparton Corporation common stock	2,098,259	2,098,259	—	—	—
Total assets in fair value hierarchy	38,756,461	38,756,461	—	—	—
Investments measured at net asset value *	6,350,374	—	—	—	—
Investments at fair value	\$45,106,835	\$38,756,461	\$ —	\$ —	—
June 30, 2015					
	Fair Value	Level 1 Inputs	Level 2 Inputs	Level 3 Inputs	
Money market fund	\$238,789	\$238,789	\$ —	\$ —	—
Mutual funds	37,795,091	37,795,091	—	—	—
Sparton Corporation common stock	3,020,843	3,020,843	—	—	—
Total assets in fair value hierarchy	41,054,723	41,054,723	—	—	—
Investments measured at net asset value *	3,307,267	—	—	—	—
Investments at fair value	\$44,361,990	\$41,054,723	\$ —	\$ —	—

* Common/collective trust fund investments are measured at fair value using the net asset value (or its equivalent) and have not been categorized in the fair value hierarchy.

4. Plan Termination

Although it has not expressed any intent to do so, the Company has the right to discontinue its contributions at any time and to terminate or partially terminate the Plan, subject to the provisions of ERISA. In the event of Plan termination, participants become 100% vested in their Company contribution account.

5. Income Tax Status

The Internal Revenue Service has determined in a letter dated March 31, 2008 that the prototype plan document was in compliance with the applicable requirements of the Internal Revenue Code ("IRC"). The Plan document has been amended since receiving the determination letter, including amendments made for plan mergers as well as to comply with recent law changes. However, the Plan Administrator and trustee believe that the Plan is designed, and is currently being operated, in compliance with the applicable provisions of the IRC.

Accounting principles generally accepted in the United States of America require Plan management to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the Internal Revenue Service. The Plan Administrator has analyzed the tax positions taken by the Plan and has concluded that as of December 31, 2015 there are no uncertain positions taken or expected to be taken that would require recognition of a liability (or asset) or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions. The U. S. Department of Labor, Employee Benefits Security Administration (the "DOL") informed Plan management on April 11, 2016 of its intent to review the Plan for the time period of January 1, 2013 through April 11, 2016. The DOL review is currently in

process. Plan management believes that this DOL review is compliance oriented and routine in nature, and is currently unaware of any instances of non-compliance with ERISA provisions.

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6. Related Party Transactions

The Plan invests in certain investments managed by Merrill Lynch and by SunTrust Bank, the trustees, and as such, these investments are considered party-in-interest transactions. Fees paid to the trustees totaled \$21,114 and \$12,285 for the six month and fiscal year periods ended December 31, 2015 and June 30, 2015, respectively.

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Schedule H, Line 4i -

Schedule of Assets (Held at EIN: 38-1054690
 End of Year)

December 31, Plan Number: 002
 2015

Identity of Issuer, Borrower, Lessor or Similar Party	Description of Investment, Including Maturity Par or Maturity Value	Cost
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Money market
fund:

BIF Money Fund	1,446 shares	**
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Common/collective
trust:

Federated Capital Preservation Fund IP	396,855 shares	**
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Putnam Stable Value Fund	508,340 shares	**
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Putnam Stable Value Fund	1,873,483 shares	**
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GM

Total

common/collective
trusts

Mutual funds:

JP Morgan Government Bond Fund	1,185 shares	**
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JP Morgan Government Bond Fund GM	357,129 shares	**
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JP Morgan Small Cap Value Fund A	336 shares	**
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JP Morgan Small Cap Value A GM	37,120 shares	**
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JP Morgan Equity Income Fund A	3,911 shares	**
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Janus Triton Fund CL A	10,042	shares **
Janus Triton Fund CL A	40,800	shares **
GM American Cent Real Estate Fund ADV	791	shares **
American Cent Real Estate Fund ADV GM	44,840	shares **
Columbia Midcap Index Fund CL A	8,752	shares **
Victory Sycamore Estate Value Fund A	2,912	shares **
Victory Sycamore Estate Value Fund GM	59,799	shares **
MFS International Diversification A	6,044	shares **
MFS International Diversification A GM	222,208	shares **
Pioneer Select Mid Cap Growth A	3,146	shares **
Pioneer Select Mid Cap Growth A GM	55,125	shares **
Pimco Income Fund CL A	1,045	shares **

A breach in cyber security due to unauthorized access to our computer systems or mismanagement of assets or sensitive information, the corruption data or other operational disruption. Such breaches of networks could be caused by internal or external events, such as incursions by intruders, system failures in hardware or software, or cyber terrorists. If we do experience a breach or failure, we may experience operational delays resulting from the disruption of systems, loss due to the destruction of data, or negative impacts from the loss of confidential data or intellectual property. We do not know if or when any of the personal information we maintain is lost or otherwise subject to misuse or disclosure. Further, we could experience negative publicity resulting in reputation or business loss from our partners.

Additionally, we are subject to privacy and data security laws across multiple jurisdictions. The storage of health information, which are complex, overlapping and rapidly evolving. As our business expands, we may be subject to additional laws which impose further restrictions on the use of health and other personal information which may impact our business either directly or indirectly. Changes with applicable privacy or security laws or significant changes in these laws could significantly impact our future business plans. For example, we may be subject to regulatory action or lawsuits.

applicable privacy laws.

We have a significant amount of debt that may adversely affect our financial condition.

We have a significant amount of debt and debt service obligations as well as restrictive covenants that may limit our ability to obtain additional financing from lenders. A high level of indebtedness increases the risk that we may default on our debt obligations, which may prevent us from borrowing additional funds. There is no assurance that we will be able to generate sufficient cash flow to pay the interest on our debt and comply with our debt covenants or that future working capital financing will be available to repay or refinance our debt. If we are unable to generate sufficient cash flow to pay the interest on our debt and comply with our debt covenants, we may have to delay or curtail our operations.

The level of our indebtedness could, among other things:

- make it difficult for us to make required payments on our debt;
- make it difficult for us to obtain any financing in the future necessary for working capital requirements or other purposes;

limit our flexibility in planning for, or reacting to, changes in our business and the industry, which may make us more vulnerable in the event of a downturn in our business.

Our business may require substantial additional capital, which we may not be able to obtain on acceptable terms, if at all.

Our future capital requirements and level of expenses will depend upon numerous factors, including, but not limited to, the following:

- marketing, sales and customer support efforts;
- research and development activities;
- expansion of our facilities;
- consummation of possible future acquisitions of technologies, products or businesses;
- demand for our products and services;
- repayment or refinancing of debt; and
- payments in connection with our hedging activities.

We currently anticipate that our short-term capital requirements will be satisfied by cash on hand. As of December 31, 2016, we had outstanding long-term debt of approximately \$1.1 billion. Furthermore, as of December 31, 2016, we had capital lease obligations, including those related to our facilities, which expire in various years through 2020. We may need to refinance all or part of these liabilities prior to their maturities.

If at some point in time our existing resources should be insufficient to fund our activities, we may be required to raise additional capital through public or private debt or equity financings. The funds for the refinancing of existing debt or the funding of our business may not be available or, if available, not on terms acceptable to us. If additional capital is not available, we may be required to reduce or delay expenditures for research and development, marketing and sales, and other expenditures and/or acquisitions, which could have a material adverse effect on our business. To the extent that additional capital is raised through the sale of equity or convertible securities, such financing could result in dilution to our shareholders.

The accounting for the Cash Convertible Notes will result in recognition of interest expense at the stated interest rate of the notes and may result in volatility to our Consolidated Statements of Income.

We will settle any conversions of the Cash Convertible Notes entirely in cash. Accordingly, the principal amount of the Cash Convertible Notes will be accounted for as a derivative pursuant to applicable accounting standards for derivative instruments and hedging activities. Refer to Note 13, "Derivatives and Hedging Activities," of the Notes to Consolidated Financial Statements. In general, this resulted in a conversion option separate from the debt component of the Cash Convertible Notes, resulting in a conversion option discount that will be accreted to interest expense over the term of the Cash Convertible Notes. The effective interest rate reported in our financial statements significantly in excess of the stated interest rate of the Cash Convertible Notes. This accounting treatment will reduce our earnings. For each financial reporting period following the issuance of the Cash Convertible Notes, a gain (or loss) will be reported in our financial statements based on the change in the fair value of the conversion option changes from the previous period. The Call Option is accounted for as a derivative instrument, substantially offsetting the gain (or loss) associated with changes in the fair value of the conversion option. This may result in increased volatility to our results of operations.

The cash convertible note hedge and warrant transactions we entered into in connection with the issuance of the Cash Convertible Notes may not provide the benefits we anticipate, and may have a dilutive effect on our earnings. Concurrently with the issuance of the Cash Convertible Notes, we entered into Call Options to hedge the principal amount of the Cash Convertible Notes upon conversion of the Cash Convertible Notes. If the counterparties fail to deliver potential cash payments to us, as required under the Call Options, we will not receive the benefit of such transaction. Separately, we also issued Warrants. The Warrants could have a dilutive effect on our earnings to the extent that the market price per share of our common stock, as measured under the terms of the Warrants, is less than the exercise price of the Warrants.

An impairment of goodwill and intangible assets could reduce our earnings.

At December 31, 2016, our consolidated balance sheet reflected approximately \$1.9 billion of intangible assets. Goodwill is recorded when the purchase price of an acquisition exceeds the fair value of identifiable intangible and separately measurable intangible net assets. U.S. generally accepted accounting principles requires

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us to test goodwill for impairment on an annual basis or when events or circumstances indicate that the carrying amount may be impaired. Long-lived assets, such as intangible assets with finite useful lives, are reviewed for impairment when events or changes in circumstances indicate that the carrying amount may not be recoverable. If impairment testing cannot be done at the level of the individual asset and it must instead be applied to a group of assets, the impairment test is an annual goodwill impairment testing based on the current circumstances of how we manage the Company as a whole. If we determine that any of our goodwill or intangible assets are impaired, we may be required to take an immediate charge to earnings and our results of operations could be adversely affected. Our strategic equity investments may result in losses.

We have made, and may continue to make, strategic investments in businesses as opportunities arise. We periodically review the carrying value of these investments for impairment, considering factors that include changes in market conditions, transactions, book values from the most recent financial statements, and forecasts and other information. The results of these valuations may fluctuate due to market conditions and other conditions. Estimating the fair value of non-marketable equity investments in life science companies is subjective. If market events differ from our assumptions and other than temporary unfavorable fluctuations in market value are indicated, we could be required to write-down the investment. This could result in a charge to earnings that could materially adversely affect our results of operations. It is uncertain whether or not we will realize the full benefits from these strategic investments.

Doing business internationally creates certain risks.

Our business involves operations in several countries outside of the U.S. Our consumers are located in Germany, China, the United Kingdom and the U.S. We source raw materials for our products from different countries. We have established sales subsidiaries in numerous countries including Germany, Japan, the United Kingdom, France, Switzerland, Australia, Canada, the Netherlands, Singapore, Turkey, South Korea, Taiwan, Malaysia, China, Spain, Brazil, Mexico, South Africa, and India. Our products are sold through independent distributors serving more than 40 other countries. Managing our international operations on an international scale requires close coordination of activities across multiple countries and consumes significant management resources. We have invested heavily in computerized systems to manage more efficiently the widely dispersed components of our operations. If we fail to manage our international activities effectively, our business and results of operations will be adversely affected. Our operations are subject to other risks inherent in international business activities, such as currency fluctuations, the countries in which we operate, longer accounts receivable payment cycles in certain countries, complex legal structures, unexpected changes in regulatory requirements, and compliance with a variety of local laws. Other risks associated with international operations include import and export licensing requirements, foreign exchange controls and changes in tariff and freight rates, as may occur as a result of regional economic conditions, an inability to successfully manage our international operations could have a material adverse effect on our business and results of operations.

We have made investments in and are expanding our business into emerging markets. Our top seven emerging markets are Brazil, Russia, India, China, South Korea, Mexico, and Japan. These markets accounted for approximately 16% of total sales in 2016, and we expect to continue to grow sales in these or other fast-growing markets. In addition to the currency and international operational risks, our international operations are subject to a variety of risks that include those arising out of political instability, language and cultural barriers in countries where we have operations or do business. In emerging markets, we may be faced with several risks that are more significant than in other countries in which we do our business. These risks include economies that may be dependent on only a few products, significant fluctuations, weak legal systems which may affect our ability to enforce contracts, corrupt or unstable governments, and privatization or other government actions affecting the flow of capital. When conducting our business, we move products from one country to another and may produce products in a subsidiary located in another country. Accordingly, we are vulnerable to abrupt changes in government policy that could have significant negative impacts on our results of operations.

Unethical behavior and non-compliance with laws by our sales agents, consultants, distributors, or other third parties could seriously harm our business.

Our business in countries with a history of corruption and transactions with foreign governments associated with our international activities. Based on our international operations, we are subject to the U.S. Foreign Corrupt Practices Act (FCPA), the U.K. Bribery Act and other laws that prohibit improper payments to government officials and political parties by business entities for the purpose of obtaining or retaining business. We have

operations, agreements with third parties and make sales in countries known to experience corruption. Our international expansion may involve increased exposure to such practices. Our activities in these countries may create risks of unauthorized payments or offers of payments, non-compliance with laws, bribery by any of our employees, consultants, sales agents or distributors, that could be in violation of applicable laws, even though these parties are not always subject to our control. It is our policy to implement measures to prevent or other unethical practices by our employees and distributors including online and in-person training, internal audits and standard reviews of our distributors. However, our existing safeguards may not prove to be effective, and our employees, consultants, sales agents or distributors may nevertheless be held responsible. Violations of the FCPA and other laws may result in criminal or civil penalties, severe, and we may be subject to other liabilities, which could negatively affect our business and financial condition.

We depend on patents and proprietary rights that may fail to protect our business. Our success depends to a large extent on our ability to develop proprietary products and technologies and to protect our patent and trademark rights in these products and technologies. As of December 31, 2016, we had 241 issued patents in the United States, 241 issued patents in Germany and 1,613 issued patents in other countries. In addition, at December 31, 2016, we had 776 pending patent applications, and we intend to continue to file patents as our products and technologies are developed. The patent positions of technology companies involve complex legal and factual questions and may be uncertain, and the laws governing the scope and duration of periods of enforceability of patent protection are subject to change. In addition, patent applications are often maintained in secrecy until patents issue, and publication of discoveries in the scientific literature can lag behind actual discoveries by several months. Therefore, no assurance can be given that our pending patent applications that we own or license or if patents do issue, that the claims allowed will adequately protect our technology. In addition, no assurance can be given that any issued patents that we own or license will be invalidated or circumvented, or that the rights granted thereunder will provide us with a competitive advantage. If patents expire, we may lose some competitive advantage as others develop competing technologies and generate revenue.

Certain of our products incorporate patents and technologies that are licensed from third parties. These in-licensed patents together with other patents provide us with a competitive advantage in the development and commercialization, sublicensing and other obligations on us. Our failure to comply with the terms of these licenses, the conversion of the applicable license from being exclusive to non-exclusive or, in some cases, the expiration of the license and as a result, we may lose some competitive advantage and experience a loss of revenue. We also rely on trade secrets and proprietary know-how, which we seek to protect through confidentiality agreements with our employees and consultants. There can be no assurance that any confidentiality agreements with our employees, consultants, outside scientific collaborators and sponsored researchers and other third parties will provide meaningful protection for our trade secrets or adequate remedies in the event of unauthorized disclosure of confidential information. There also can be no assurance that our trade secrets will not otherwise be discovered or developed by competitors.

We currently engage in, and may continue to engage in, collaborations with academic institutions. There can be no assurance that under the terms of such collaborations, third parties will not acquire or develop technology developed during the course of these collaborations.

We are subject to risks associated with patent litigation.

The biotechnology industry has been characterized by extensive litigation regarding patent rights. We are aware that patents have been applied for and/or issued to third parties covering technologies and assay technologies that are closely related to those we use. From time to time, we receive notices of alleged infringement or confirmation that we do not infringe patents of third parties. We endeavor to follow due diligence procedures and do not believe that our technologies or products infringe any proprietary rights of third parties. There can be no assurance that third parties will not challenge our activities and, if so challenged, that our activities and proprietary rights of others could require that we alter our products or processes, discontinue certain activities, and there can be no assurance that we will be able to license any technology from third parties on favorable terms. In addition, litigation, including proceedings that may be declared by the U.S. District Court for the District of Columbia, may result in the issuance of an injunction that could prevent us from commercializing our products and technologies.

International Trade Commission, may be necessary to respond to any assertions of infringement and/or determine the scope and validity of our proprietary rights or those of third parties at substantial cost, and there can be no assurance that we would prevail in any proceeding. Our business exposes us to potential product liability.

The marketing and sale of our products and services for certain applications entail a potential for product liability. Although we are not currently subject to any material product liability claims, products may be subject to claims against us in the future. Further, there can be no assurance that our products will not be subject to inappropriate research or

applications, which may in turn put us at risk of litigation. We carry product liability insurance of a certain scope and amount. There can be no assurance that we will be able to maintain this insurance on reasonable terms, or that this insurance will be adequate to protect us against any or all claims. We are subject to various laws and regulations generally applicable to businesses in the industry in which we operate, including laws and regulations applicable to the handling and disposal of hazardous materials. Accidental contamination or injury from these materials cannot be completely eliminated. We could be held liable for any damages that result, and any such liability could have a material adverse effect on our operating results. Our operating results may vary significantly from period to period and this may affect the price of our Common Shares.

Our operating results may vary significantly from quarter to quarter, and also from year to year, upon a broad range of factors that include demand for our products, the level and timing of our research and commercialization efforts, the timing of government funding budgets of our customers, the timing of our development activities and related regulatory approvals, the impact of sales and marketing efforts, restructuring activities, the introduction of new products by us or our competitors, competition, currency rate fluctuations and general economic conditions. Our expense levels are based in part on our sales trends. As a result, sales and earnings may vary significantly from quarter to quarter and year to year, and earnings results in any one period will not necessarily be indicative of results to be expected in the future. Our results may also fail to meet or exceed the expectations of securities analysts or investors, which may result in a decline in the market price of our Common Shares.

Our holding company structure makes us dependent on the operations of our subsidiaries. QIAGEN N.V. is incorporated under Dutch law as a public limited liability company organized as a holding company. Currently, the material assets are the outstanding shares of our subsidiaries, intercompany receivables and other financial assets such as cash and short-term investments. Our ability to pay dependent upon payments, dividends and distributions from the subsidiaries for funds to pay our obligations, as well as to pay future cash dividends or distributions, if any, to holders of our Common Shares. Payments by subsidiaries in a currency other than the U.S. dollar may result in a loss upon a subsequent conversion to U.S. dollars. U.S. civil liabilities may not be enforceable against us.

We are incorporated under Dutch law, and substantial portions of our assets are located outside the U.S. Certain members of our Managing and Supervisory Boards and our officers reside outside the U.S., making it difficult for investors to effect service of process within the U.S. upon us or such other persons. Consequently, U.S. any judgments obtained against such persons in U.S. courts, in any action, including an action under the liability provisions of U.S. securities laws.

In addition, it may be difficult for investors to enforce, in original actions brought in or removed to the U.S., rights predicated upon the U.S. securities laws. There is no treaty between the U.S. and the Netherlands for mutual recognition and enforcement of judgments (other than arbitration awards) in civil or commercial matters. As a result, a final judgment for the payment of money rendered by any federal or state court in the U.S., whether or not predicated solely upon the federal securities laws, would not be directly enforceable against us. However, if the party in whose favor such final judgment is rendered brings a new suit in the Netherlands, such party may submit to the Dutch court the final judgment which has been rendered in the U.S. If the court finds that the jurisdiction of the federal or state court in the U.S. has been based on proper grounds, acceptable and that proper legal procedures have been observed, the Dutch court will, in enforcing the final judgment which has been rendered in the U.S. without substantive re-examination of the merits of the subject matter thereof, unless such judgment contravenes Dutch principles of public policy. There can be no assurance that U.S. investors will be able to enforce against us, members of our Managing and Supervisory Boards or officers who are residents of the Netherlands or countries other than the U.S. any judgments obtained in civil and commercial matters, including judgments under the federal securities laws. In the event that a Dutch court would impose civil liability on us, the members of our Managing or Supervisory Boards or officers in an original action predicated solely upon the federal securities laws of the U.S. brought in or removed to the Netherlands against us or such members or officers, respectively.

Our Common Shares may have a volatile public trading price.

The market price of our Common Shares since our initial public offering in September 2014 has been highly volatile. In the last two years, the price of our Common Shares has ranged from a high of \$19.94 on NASDAQ, and a high of €27.26 to a low of €17.76 on the Frankfurt Stock Exchange. Due to market fluctuations, factors that may have a significant impact on the price of our Common Shares include:

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- announcements of technological innovations or the introduction of new products by us;
- developments in our relationships with collaborative partners;
- quarterly variations in our operating results or those of our peer companies;
- changes in government regulations, tax laws or patent laws;
- developments in patent or other intellectual property rights;
- developments in government spending budgets for life sciences-related research;
- general market conditions relating to the diagnostics, applied testing, pharmaceutical and medical device markets;
- impact from foreign exchange rates.

The stock market has from time to time experienced extreme price and trading volume fluctuations that have affected the market for technology-based companies. These fluctuations have not necessarily reflected the performance of these companies. These broad market fluctuations may adversely affect the price of our Shares.

Holders of our Common Shares should not expect to receive dividend income.

In January 2017, we completed a synthetic share repurchase that combined a direct capital repayment with a reverse stock split and we plan to complete an additional share repurchase program of up to \$50.0 million. As we do not anticipate paying any cash dividends on our Common Shares for the foreseeable future, in connection with a synthetic share repurchase, we have not paid cash dividends. As we do not anticipate paying any cash dividends on a regular basis, the distribution of dividends in a foreign currency other than the U.S. dollar will be subject to the risk of foreign currency transaction losses. If you are a holder of our Common Shares if they are seeking dividend income; the only return that may be realized on our Common Shares would be through an appreciation in the share price.

Holders of our Common Shares may not benefit from continued stock repurchase programs. Between October 2012 and April 2013, we repurchased a total of 5.1 million of our Common Shares for a total cost of \$99.0 million, and between September 2013 and June 2014, we repurchased an additional 2.0 million of our Common Shares for \$100.4 million (including performance fees). In 2014 and 2015, we repurchased 1.0 million of our Common Shares for an aggregate cost of \$69.9 million under our third share repurchase program. In January 2017, we completed a synthetic share repurchase that combined a direct capital repayment with a reverse stock split. The program was announced in August 2016 and involved an approach used by various large, multinational companies to return value to all shareholders in a faster and more efficient manner than traditional open-market repurchases. The program returned to shareholders through the transaction, which reduced the total number of shares outstanding by 3.7% to 230.8 million (of which 4.95 million in treasury) as of January 31, 2017. In April 2017, we announced a share repurchase, we announced additional share repurchases to take place via the open market. We intend to use a view to return an aggregate amount of \$300.0 million to our shareholders.

The purpose of these repurchases has been to hold the shares in treasury in order to satisfy obligations under debt instruments and/or employee share-based remuneration plans and thus to reduce the number of shares outstanding. We may decide not to continue such programs in the future, the continuation of such programs may limit our ability to use available cash to do so, and the market price of our Common Shares may not be as desirable. In any of these cases, holders of our Common Shares may suffer dilution from the future issuance of shares pursuant to employee remuneration plans that would otherwise be satisfied by the repurchase of shares.

Future sales and issuances of our Common Shares could adversely affect our stock price. Any future sale or issuance of a substantial number of our Common Shares in the public market, whether by open market sale may occur, could adversely affect the market price of our Common Shares. Under our Articles of Association, we are authorized to issue up to its authorized share capital provided for in its Articles of Association. Pursuant to our Articles of Association, our authorized share capital amounts to EUR 9.0 million, which is divided into 410.0 million shares, consisting of 10.0 million financing preference shares and 400.0 million preference shares, with all shares having equal voting rights. As of December 31, 2016, a total of approximately 234.6 million Common Shares were outstanding. We have reserved 11.6 million additional shares reserved for issuance upon exercise or release of outstanding options, of which 1.4 million were vested. A total of approximately 17.9 million Common Shares are reserved for future issuances under our stock plans as of December 31, 2016, including the shares subject to outstanding options.

awards. The majority of our outstanding Common Shares may be sold without restriction by our affiliates, which are subject to certain limitations on resale. Additionally, the Warrant and Convertible Notes Call Spread Overlay cover an aggregate of 25.8 million shares of common stock (subject to anti-dilution adjustments under certain circumstances).

Shareholders who are United States residents could be subject to unfavorable tax treatment. We may be classified as a “passive foreign investment company,” or a PFIC, for U.S. tax purposes if the tests are met. Our treatment as a PFIC could result in a reduction in the after-tax return on our shares, which would likely cause a reduction in the value of these shares. If we were determined to be a PFIC for tax purposes, highly complex rules would apply to our U.S. shareholders. We would be considered a U.S. shareholder if for any taxable year in which the U.S. shareholder held the Common Stock, (i) our gross income for the taxable year is passive income; or (ii) the average value of our assets, which produce or are held for the production of passive income is at least 50% of the value of our assets for the year. Based on our income, assets and activities, we do not believe that we were a PFIC for U.S. tax purposes for our taxable year ended December 31, 2016, and do not expect to be a PFIC for any future taxable year. No assurances can be made, however, that the Internal Revenue Service will not determine that we or that we will not subsequently become a PFIC. In countries outside the U.S., other tax laws could result in unfavorable tax treatment for any dividends received.

Provisions of our Articles of Association and Dutch law and an option we have granted to remove management and may inhibit or delay a takeover.

Our Articles of Association (Articles) provide that our shareholders may only suspend and Supervisory Directors against their wishes with a vote of two-thirds of the votes cast if such vote represents 50% of our issued share capital. If the proposal was made by the joint meeting of the Board, a simple majority is sufficient. The Articles also provide that if the members of the Managing Board have been nominated by the joint meeting of the Supervisory Board, the shareholders may only overrule this nomination with a vote of two-thirds of the votes cast if such vote represents 50% of our issued share capital.

Certain other provisions of our Articles allow us, under certain circumstances, to prevent a change of control of our company by a majority of the voting control of our Common Shares through the issuance of Preferred Shares and the resolution adopted by our General Meeting of Shareholders, our Supervisory Board or our Managing Board. In particular, our Articles of Association provide that we may issue Preferred Shares in case of an intended takeover of our company by (i) any person who alone or jointly with others, directly or indirectly, have acquired or given notice of an intent to acquire (beneficially or otherwise) an aggregate equals 20% or more of our share capital then outstanding or (ii) an “adverse party” to our company as determined by our Supervisory Board. If the Supervisory Board opposes an intended takeover and authorizes us to do so, we may, at our discretion, the bidder may withdraw its bid or enter into negotiations with the Managing Board and the bidder may be required to submit a higher bid price for our Shares.

In 2004, we granted an option to the Stichting Preferente Aandelen QIAGEN, or the Foundation, on the conditions described in the paragraph above, which allows the Foundation to acquire a number of Preference Shares that enables the Foundation to acquire such number of Preference Shares as equals the number of outstanding Preference Shares at the time of the relevant exercise of the option, less one Preference Share. When exercising its voting rights on these Preference Shares, the Foundation must act in our best interests and those of our stakeholders. The purpose of the Foundation option is to prevent or delay a change of control of us and our stakeholders. An important restriction on the Foundation's ability to exercise its option to acquire control is that a public offer must be announced by a third party before it can issue (or purchase) shares that would enable the Foundation to exercise rights to 30% or more of the voting rights of the company. This is a mandatory offer for all shares held by the remaining shareholders. In addition, the holder of the option to acquire control of the Foundation is restricted to two years, and this protective stake must fall below the 30% threshold. When the two-year period ends,

Note Regarding Forward-Looking Statements and Risk Factors

Our future operating results may be affected by various risk factors, many of which are identified in the statements included in this Annual Report and the documents incorporated herein by reference. These statements constitute forward-looking statements within the meaning of Section 27A of the U.S. Securities Act of 1933, as amended, and Section 27A of the Securities Exchange Act of 1934, as amended, including statements regarding potential revenue, earnings, income and liquidity. These statements can be identified by the use of forward-looking words such as “plan,” “intend,” “seek,” “may,” “will,” “could,” “should,” “would,” “expect,” “anticipate” or similar words.

is made in particular to the description of our plans and objectives for future operations and objectives, and other forward-looking statements. Such statements are based on management's expectations and are subject to a number of factors and uncertainties that could cause actual results to differ from those projected in the forward-looking statements. We caution investors that there can be no assurance that actual results or conditions will not differ materially from those projected or suggested in such forward-looking statements due to various factors. Factors which could cause such results to differ materially from those projected in the forward-looking statements include those set forth in the risk factors below. As a result, our future success will depend on many factors. When considering forward-looking

statements, you should keep in mind that the risk factors could cause our actual results to differ from those contained in any forward-looking statement.

Item 4. Information on the Company

Description of our business

Company overview

QIAGEN is a global leader in Sample to Insight solutions that transform biological samples into valuable molecular insights. Our vision is to make improvements in life possible by enabling our customers to generate insights. Diagnostics, Applied Testing, Pharma and Academia - to achieve outstanding success with efficient solutions for molecular testing.

QIAGEN's Sample to Insight solutions integrate sample and assay technologies, bioinformatics and automation. Our solutions support more than 500,000 customers worldwide in generating insights from biological samples. Our proven solutions are providing answers in hospitals and laboratories worldwide, handling increasing volumes and complexity of biological information.

Since the first sequencing of the human genome was completed in 2003, knowledge of biological processes and mechanisms and diseases has been growing exponentially. In what observers call “the genomic revolution,” the acceleration in the speed of sequencing - and reduction in cost - is generating new discoveries from genomic data. This revolution in the life sciences is transforming healthcare and influencing the way we live. QIAGEN's mission is to drive this ongoing wave of discoveries and the wide-ranging applications of genomic data. QIAGEN began operations in 1986 as a pioneer in the emerging biotechnology sector. Our standardized and accelerated extraction and purification of nucleic acids from biological samples has grown to influence many areas of life. QIAGEN has expanded to serve the full spectrum of life sciences. Our technologies are unmatched in quality for isolating and preparing DNA (deoxyribonucleic acid) and RNA (ribonucleic acid) from proteins from blood or other liquids, tissue, plants or other materials. Our assay technologies enable the detection of biomolecules accessible for analysis, such as identifying the genetic information of a cell or a tumor. QIAGEN's industry-leading bioinformatics solutions allows users to analyze and interpret genomic data to actionable insights. Our automation platforms based on polymerase chain reaction (PCR) and next-generation sequencing (NGS) and other technologies tie these together in seamless and cost-effective molecular testing solutions from Sample to Insight.

Net sales of \$1.34 billion in 2016 were comprised of consumable kits and other revenue from sample and assay systems and instruments (13% of sales). Approximately 50% of net sales in 2016 were generated by consumable kits and went to Life Sciences customer classes in the Academia, Pharma and Applied Testing. QIAGEN has grown by introducing innovative products and making strategic acquisitions. Our financing activities include internally generated funds, debt offerings and private and public sales of equity securities. QIAGEN is listed on the NASDAQ exchange under the ticker symbol “QGEN” and on the Frankfurt Stock Exchange. The company is registered under its commercial and legal name QIAGEN N.V. with its registered office at QIAGEN koophandel) of the Dutch region Limburg Noord under file number 12036979. QIAGEN is a holding company (naamloze vennootschap) under Dutch law as a holding company. Our principal office is located at Hulsterweg 82, 5912 PL Venlo, The Netherlands, and our telephone number is +31-77 460 460. As a holding company, QIAGEN conducts business through subsidiaries located throughout the world. For more information about QIAGEN can be found at www.qiagen.com. By referring to our website, we do not intend to incorporate any portion of the website by reference into this Annual Report.

Recent Developments

QIAGEN has recently achieved a number of strategic milestones in serving customers and driving growth. Leadership in differentiated core technologies continuing to drive growth:

Building on our long-standing core strength in sample technologies, which laboratories rely on to generate the highest-quality DNA and RNA for molecular testing, QIAGEN continued to expand our portfolio of differentiated solutions for the front-end challenges of customers. QIAGEN technologies enable the processing of biological samples a day. Our strategic focus is on rapidly growing areas of research and

• QIAGEN expanded our leadership in “liquid biopsies,” solutions that unlock molecular non-invasive alternatives to surgical biopsies. Our technologies for isolation and stab

in an estimated 80% of liquid biopsy testing. In 2016, we continued to introduce cutting-edge sample and library preparation challenges.

QIAGEN also launched the first Sample to Insight NGS solution for analyzing either paraffin-embedded (FFPE) tissue samples in clinical cancer research, a complete workflow System and our Actionable Insights Tumor Panel and our unique and new QIAGEN solution.

QIAGEN delivered brisk growth from the industry's broadest Sample to Insight portfolio and metagenomics, the study of microbial interactions with the environment and human health. At MO BIO Laboratories, QIAGEN sample technologies are the starting point for the most integrated front-end kits with specialized assays and bioinformatics to provide complete. Acquisition of the Danish company Exiqon A/S in 2016 added to QIAGEN's portfolio of RNA in the fight against cancer and other diseases. Integrating the Exiqon solutions gave the market for non-coding RNA (ncRNA) analysis in epigenetic research, with future diagnostics.

QIAGEN further expanded our leadership in solutions for single-cell analysis, which addresses heterogeneity to research the pathways of disease or to monitor patient progress, in fields like neurobiology and stem-cell biology. In 2016, we launched QIAscout, a compact instrument that efficiently select and isolate viable single cells for analysis with NGS, PCR or other methods. single-cell sample kits.

QuantiFERON-TB Gold growing rapidly as world focuses on tuberculosis control:

QIAGEN is aiding the global fight against tuberculosis (TB), an infectious disease that kills approximately 1.5 million annually, with our QuantiFERON-TB Gold and QuantiFERON-TB Gold Plus tests, that detect TB infection. Screening for latent TB in high-risk patient populations, an asymptomatic person dormant for years and then "reactivate" as active, contagious TB, is increasingly recognized as the disease.

Our novel technology, delivering reliable results with the third-generation QuantiFERON-TB Gold, the fourth-generation QuantiFERON-TB Gold Plus (QFT-Plus), has become the latent TB test of choice in the world. The efficient, laboratory-based tests are displacing the less accurate, century-old tuberculin skin test. surpassed \$140 million in 2016.

QuantiFERON-TB Gold gained momentum in 2016 from key clinical guidelines for TB diagnosis. The U.S. Preventive Services Task Force recommended that primary care clinicians screen adult patients at least once with QFT as a test proven to be reliable. A separate task force, backed by the U.S. Centers for Disease Control and Prevention (CDC) and two professional societies, updated evidence-based guidelines to broaden the use of TB tests such as QFT over the century-year-old tuberculin skin test. It also broadened the use of QFT in TB infection. These guidelines were endorsed by the European Respiratory Society.

QuantiFERON-TB Gold-Plus was submitted to the U.S. Food and Drug Administration for regulatory approval. QFT-Plus has been launched in more than 60 countries following European approval. QFT-Plus is a new test, which adds proprietary CD8 T-cell technology and other enhancements to our existing QuantiFERON-TB Gold test, an important support in the global TB control community. The World Health Organization cited early clinical results on QFT-Plus indicating its ability to measure CD8 T-cell response in TB patients at greater risk of progression to active TB.

Next-generation sequencing solutions extending QIAGEN's reach:

Our GeneReader NGS System, the first complete Sample to Insight next-generation sequencing solution for any laboratory to deliver actionable results, has been well received in Europe since its late-2015 launch. GeneReader NGS adoption is accelerating, achieving our goal of a 10% share of the estimated global annual market for new NGS solutions in oncology applications. The system is the world's first truly end-to-end NGS solution, from sample to final report - providing a simpler, more cost-effective way for laboratories to analyze and improve outcomes.

QIAGEN has initiated the roll out of a deep pipeline of enhancements to the GeneReader NGS System for use in basic and translational research labs. In 2016 these included adaptation of our ActionPac NGS Library Preparation Kits for liquid biopsies, adding to FFPE tissue samples; an extensive package of quality control and validation; a partnership to integrate the GeneReader NGS System with users' laboratory information management systems (LIMS); and the option of QIAseq for higher-throughput front-end automation.

In November 2016, two months after a U.S. court issued a preliminary injunction restraining GeneReader NGS System while considering a competitor's lawsuit, QIAGEN announced a new sequencing chemistry that avoids the patent at issue in the United States. The new chemistry is available to U.S. customers in an early-access phase starting December 1, 2016, and full commercial availability for the rest of the world, GeneReader NGS System marketing has continued without interruption. Enhanced performance will be rolled out in 2017.

In 2017, QIAGEN expects to launch additional enhancements and new content to improve the effectiveness of the GeneReader NGS System. We plan to launch at least five new GeneReader NGS panels, including in-depth breast and lung cancer panels as well as customized panels for specific cancer types. The new Actionable Insights Tumor Panel (ATP), the first GeneReader QIAact panel, reduces the amount of tissue or liquid biopsy samples analyzed. Proprietary Digital NGS technology in the ATP detects mutation types such as large rearrangements, gene fusions, copy number variations (CNVs), deletions (InDels), in addition to current detection of single nucleotide polymorphisms (SNPs).

As the leader in "universal" technologies for use with any sequencing system, QIAGEN continues to expand its portfolio. In 2016, we added to our line-up of liquid biopsy solutions with the following:

- All-in-One Kit, the first dedicated solution for use on any NGS platform that covers the entire workflow from library preparation for liquid biopsy analysis. QIAGEN pre-analytical solution for liquid biopsy NGS reactions.

Also in 2016, we launched a comprehensive portfolio of QIAseq NGS panels with our most accurate quantification and detection of DNA, RNA and miRNA across all next-generation sequencing platforms. Leadership in Personalized Healthcare continuing its momentum:

QIAGEN continues to roll out novel companion diagnostics that deliver actionable insights based on patients' individual genomic information. In 2016, QIAGEN launched the new QIAseq miRNA panel in Europe, a unique CE-IVD marked assay for use in blood cancers known as myelodysplastic syndromes. The latest addition to the ipsogen portfolio of assays for common and rare leukemia types is the QIAseq miRNA panel. QIASymphony RGQ platforms.

Our Personalized Healthcare pipeline continues to expand through collaborations with leading pharmaceutical companies to develop and commercialize companion diagnostics paired with targeted therapies. A major milestone of 20 master collaboration agreements with Pharma companies, each providing a strategic partnership in 2016 with Mirati Therapeutics, Inc., to commercialize a companion diagnostic for non-small cell lung cancer; with Daiichi Sankyo for multiple projects; and with an unnamed partner in immuno-oncology. Most of the specific projects are unannounced at the request of the pharmaceutical company. As a leading independent developer of molecular technologies, QIAGEN is the industry's premier provider of companion diagnostics.

QIAGEN offers our collaborators in Personalized Healthcare access to multiple platforms including the GeneReader NGS System and the multi-modal Modaplex system. These projects include the development of assays or multiplex panels, depending on specific needs and biomarkers involved for the development of companion diagnostics. In addition, some Personalized Healthcare tests provide predictive value for individual patients' progress.

In 2016, we entered a collaboration with Therawis Diagnostics GmbH to develop and commercialize a companion diagnostic in oncology. An initial project is to commercialize an assay for PITX2 as a biomarker to predict response to treatment in triple negative and other high-risk breast cancer patients, an area of high unmet need. QIAGEN also began a collaboration with HTG Molecular Diagnostics, Inc. (HTG), to develop a companion diagnostic solution for developing of companion diagnostics with Pharma companies, with a focus on the development of assays. This includes assay development, commercialization and manufacturing. QIAGEN also maintains a strong focus on QIASymphony delivering platform growth as content menu expands:

QIAGEN achieved our 2016 goal of surpassing 1,750 cumulative placements on the QIASymphony platform, up from 1,500 at the end of 2015. The QIASymphony platform's integration to Insight automation for medium-throughput molecular testing workflows and the expanding content menus drove our 2016 growth in consumables.

In 2016, QIAGEN made the QIAsymphony SP instrument available as a front-end of the GeneReader NGS System, adding highly automated, higher throughput sample volume to the first complete Sample to Insight solution for NGS. The NGS workflow now integrates enabling laboratories outside the United States to perform sample processing of different types of samples, enabling continuous loading, random access and greater speed for demanding environments.

To enhance the QIASymphony platform's value to customers worldwide, QIAGEN co-development projects for regulator-approved molecular diagnostics to run on the platform. Testing content.

The QIASymphony platform serves all of our customer classes: Approximately 60% are in Diagnostics, and 40% are in the Life Sciences with Applied Testing, Pharma and Academic. Industry-leading bioinformatics turning raw genomic data into valuable insights: QIAGEN's broad offering of content-enabled software, the leading portfolio of bioinformatics, continues to grow as a standalone franchise. The platform is a key driver for Sample to Insight workflows across all platforms and applications. Our bioinformatics turns genomic data into actionable insights for customers, addressing a critical bottleneck in research, especially for clinical research and diagnostics. We continue to roll out new solutions for research and healthcare and to integrate rich bioinformatics with QIAGEN's molecular testing solutions. In January 2017, QIAGEN acquired OmicSoft Corporation to expand our offering with tools to visualize and mine large institutional and publicly available "omics" datasets, in addition to literature-based datasets marketed by QIAGEN. The OmicSoft solutions meet a growing demand for research to access and manage huge amounts of data on DNA, RNA and other variables from sequencing.

The unique RNA-seq Explorer Solution, a bioinformatics-driven approach to analyzing genomic data from liquid biopsies, was introduced in 2016. RNA-seq Explorer integrates QIAGEN's software solutions to generate clear insights for research into the detection, diagnosis and prognosis of disease. QIAGEN also enhanced our research workflow for hereditary and rare diseases, targeted sequencing, with capabilities using liquid biopsies for non-invasive prenatal testing (NIPT) and cancer detection. In 2016, we partnered with lab informatics company Genohm to empower GeneRead customers with data management by integrating our genomic workflow with their laboratory information management system. GeneRead Link, a middleware co-developed by the two companies, provides full connectivity between workflows with the leading LIMS systems.

QIAGEN pursues collaborations and linkages across the genomics and bioinformatics ecosystem to make access possible to insights for research and diagnostics. In 2016, we offered our Here platform as a plug-in to implement the Broad Institute's GATK best practices, the gold standard for genomic data analysis. Biomedical Genomics Workbench software. For microbiome researchers, we partnered with a big data company, in the launch of a metagenomics analysis plug-in for the QIAGEN CLC Genomics Workbench.

In 2016, we announced collaborations to combine our industry-leading genome analysis solutions from tech leaders Intel and BioTeam, aiming to create infrastructure solutions for genomic analysis feasible for more researchers. Both projects are in development for use in managing large data from NGS research.

Targeted actions improving efficiency and increasing returns to shareholders

In 2016, QIAGEN announced initiatives to return \$300 million in capital to shareholders. QIAGEN announced a series of targeted restructuring actions to improve efficiency and profitability. QIAGEN has momentum, after a period of investment to support QIAGEN's transformation as a more efficient company. The commitment to return \$300 million in cash to QIAGEN shareholders included a \$250 million transaction completed in January 2017. This transaction returned about \$244 million to shareholders in the form of capital repayment with a reverse stock split. QIAGEN intends to return the balance of the commitment through open-market share repurchases during 2017.

Restructuring actions initiated in the fourth quarter of 2016 include closing the site in Hombrechtikon, Switzerland; expanding the use of shared services; streamlining selected organizational structures to achieve operational excellence to consolidate activities; streamlining selected organizational structures to achieve operational excellence; global and regional marketing teams; and optimizing sales channels to better engage customers and leverage the power of digital technologies. A pre-tax restructuring charge of \$79.1 million (\$0.24 per share) and approximately \$42.4 million of non-cash items, was recorded in the fourth quarter of 2016.

approximately \$10 million (or about \$0.03 per share after taxes) are expected during
Our Products

QIAGEN leverages our leadership in Sample to Insight solutions for molecular testing and customer classes. We provide more than 500 core consumable products (sample and assay kits) that automate the use of these products. Our bioinformatics solutions connect laboratory data to large amounts of genomic data, reporting relevant insights to enable scientists or clinicians. QIAGEN's diverse revenue streams can be seen in two main categories: consumables and automation platforms and instruments.

Consumables and related revenues

Consumable products, accounting for approximately 79%-80% of net sales, typically include reagents and purify molecules of interest from biological samples and assay technologies that make them available for analysis and interpretation. To maximize customer convenience, our consumable products contain all necessary reagents and a manual of protocols and background information. Simplicity of use and cost-effectiveness are keys to the success of molecular testing products.

QIAGEN's differentiated sample technologies ensure that each biological sample is processed using a standardized method with the highest quality. A broad range of kits support applications including RNA purification and stabilization, genomic and viral nucleic acid purification, DNA purification, target enrichment, and library preparation for sequencing. For example, in 2016 we introduced new RNA and library preparation kits adding to our global leadership in solutions for minimally processed samples. We expanded our portfolio of solutions for processing difficult samples in research into the clinical space. Our assay technology solutions contain all the needed reagents to enable customers to perform detection on platforms supporting PCR, NGS or multimodal analysis. Each assay kit is designed for specific applications, varying from a single application to kits containing more than 1,000 assays. We offer open, general-purpose PCR reagents, as well as kits for the detection of specific viral pathogens in humans and animals, pharmacogenomic testing and genotyping. In PCR, examples are diagnostic assays, diagnostics, artus line for profiling infectious diseases, and investigator assays for forensic analysis. Our GeneGlobe portal gives customers access to a vast portfolio of pre-designed assay panels. Our NGS assay panels enable sequencing to identify DNA or RNA variants relevant to clinical or research applications. In 2016 we launched a comprehensive portfolio of universal QIAseq kits with the ability to run on any NGS platform, and in early 2017 we added GeneRead QIAact lung cancer panels to our growing menu of molecular content designed for the GeneReader NGS System.

Related revenues, accounting for approximately 7%-8% of our net sales, include bioinformatics solutions, freestanding software or cloud-based solutions and also integrated into QIAGEN consumable products. Sample to Insight workflows. Examples of our bioinformatics solutions:

Ingenuity Variant Analysis, a powerful cloud-based platform tapping into the QIAGEN data ecosystem, from NGS analysis to efficiently filter genetic variants and interpret links to diseases.

QIAGEN Clinical Insight, a unique evidence-based decision support solution, draws on QIAGEN's expertise to deliver clinically relevant insights from complex genomic variants identified in NGS.

CLC Genomics Workbench incorporates cutting-edge technology and algorithms to optimize workflow efficiency in analyzing and visualizing data from all major NGS platforms.

GeneGlobe, a web-based portal, enables researchers to search and select gene- and pathway-based assays. Approximately 25 million pre-designed and custom PCR assay kits, NGS assay panels and NGS assay panels.

Related revenues also include royalties, milestone payments from co-development agreements, payments from technology licenses and patent sales, and custom services, including assay development, services, DNA sequencing, and non-cGMP DNA production on a contract basis.

Automation platforms and instruments

Our instrumentation systems, contributing approximately 12%-13% of net sales together with consumables, automate the use of consumables into efficient workflows for a broad range of laboratory applications. Designed to carry our customers from Sample to Insight - handling and preparation of samples, assay and sequencing technologies, and interpretation that delivers valuable insights. These instruments support reliable and reproducible processes, including nucleic acid sample preparation, assay development, and interpretation of genomic information. Often several of these instruments are integrated

Among the automation platforms that contribute to QIAGEN's business:

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QIASymphony is an easy-to-use modular system that has launched a new era of integrated automation, making molecular testing more efficient and helping to disseminate standard diagnostics. Our fully integrated QIASymphony RGQ, launched in 2010, includes three modules: sample preparation, QIASymphony AS for assay setup, and our real-time PCR platform module, the world's first rotary real-time PCR cyclers system, makes sequences of DNA amplification and quantifiable. In 2016, our installed base increased to more than 1,750, more than triple the number at the end of 2011. The platform offers many features to support continuous loading, random access and the ability to process an almost unlimited range of the broadest content menu in its category in Europe and other markets, and QIAGEN assays to add value for customers.

GeneReader NGS System, introduced in late 2015, is the first complete Sample to Insight (NGS) solution designed for any laboratory to deliver actionable results. This end-to-end, cost-effective way for basic and translational research to take advantage of NGS technology. GeneReader workflow offers the flexibility of scalable batch sizes and continuous loading. Customers can create relevant reports using QIAGEN's proven gene panels and bioinformatics. Out several expansions in the GeneReader system's capabilities, including use with non-human to tissue samples; sample and library preparation with either QIACube or QIASymphony technology for control of the analysis and reliable detection of extremely rare mutations. Information management systems (LIMS).

Modaplex is a multimodal automation system integrating amplification, capillary electrophoresis, and quantification of multiple targets in a single reaction. This innovative platform allows multiple targets and different types of assays, to run simultaneously in a single well.

QIACube robotic workstations provide highly versatile solutions for automated sample preparation for purification of DNA, RNA and proteins. Seamless integration of sample prep frees up lab space, enabling laboratories to increase productivity and achieve standardized results in analysis. It is available in a standard and high-throughput version.

EZ1 Advanced XL performs automated nucleic acid purification for many sample types including identity testing, forensics, biomedical research, and gene expression analysis.

QIAXcel replaces traditional slab-gel analysis, eliminating time-consuming nucleic acid analysis in high-throughput labs and offering unprecedented sensitivity and time-to-results for analysis. QIAscout, a small benchtop instrument that enables researchers to efficiently select and analyze analysis with NGS, PCR or other methods. QIAscout was launched in 2016.

PyroMark, a high-resolution detection platform with Pyrosequencing technology, enables quantification of genetic mutations and DNA methylation patterns to identify variations and pathogen detection, or conduct epigenetic research.

QIAGility is a compact benchtop instrument that enables rapid, high-precision PCR screening of plate formats, as well as Rotor-Discs for the Rotor-Gene Q.

ESEQuant portable, battery-operated instruments enable optical measurement for Point-of-Care healthcare and other applications, particularly in physician practices, emergency rooms, and with limited or delayed access to laboratories.

Customers

From the early days of the biotechnology revolution, QIAGEN believed that innovative samples and the analysis of nucleic acids would play an increasingly important role in insights extracted from DNA and RNA would be increasingly valuable in research, in With a growing portfolio of innovative products for molecular testing, we have built a life science value chain. Discoveries often surface in universities and research institutions, resources for development by pharmaceutical and biotech companies, and finally move into healthcare and other areas of life. We serve the needs of four major customer classes: Molecular Diagnostics - healthcare providers engaged in patient care including hospitals, reference laboratories and physician practices

- Applied Testing - government or industry customers using molecular technologies in diagnostics and food safety testing

- Pharma - pharmaceutical and biotechnology companies using molecular testing in translational medicine and clinical development efforts
- Academia - researchers exploring the secrets of life such as disease mechanisms and translating findings into drug targets or other products

Molecular Diagnostics

The ability of advanced diagnostic technologies to unlock molecular information for precision medicine, creating a large and growing market for nucleic acid sample preparation, as well as clinical care. Dissemination of PCR and other amplification technologies has brought molecular diagnostics in healthcare around the world, and next-generation sequencing is rapidly disseminating. Technologies for molecular diagnostics enable clinicians and labs to identify and profile bacteria and viruses by detecting their specific nucleic acid sequences or characterizing genomic sequences related to diseases. Commercial applications are multiplying as researchers seek to understand disease and develop novel technologies to decipher these diagnostic clues.

The molecular diagnostics market generates total sales estimated by industry experts at over \$10 billion, including about \$3-4 billion potentially addressable with QIAGEN's product portfolio. Molecular diagnostics is a dynamic segment of the global in vitro diagnostics market and is growing at a compound annual growth rate of single-digits or low double-digits. Given the advantages of precise genetic information, QIAGEN expects the healthcare market to continue to provide significant growth opportunities. In QIAGEN's robustly growing Molecular Diagnostics business we focus on three primary areas: Oncology - accurately diagnosing cancer, enabling prevention or early detection, and providing individualized molecular insights. QIAGEN offers a broad portfolio of companion diagnostic tests for mutations of genes such as KRAS, EGFR, BRAF and others that influence the efficacy of cancer therapies. We provide industry-leading tests used in screening women for human papillomavirus (HPV). Infectious diseases - detecting and differentiating a broad range of viral and bacterial infections including HIV, hepatitis and healthcare-associated infections. Use of molecular testing to differentiate pathogens in guiding treatment, such as selection of antibiotic or antiviral therapies.

Immune monitoring - using advanced technologies that detect immune-system markers to monitor disease progression, screening patients for latent TB infection to guard against active TB disease, as well as monitoring transplant patients such as in transplantation patients.

QIAGEN offers one of the broadest portfolios of molecular technologies for healthcare. The success of these technologies depends on the ability to accurately analyze purified nucleic acid samples from sources such as blood, saliva, and stool, on automated systems that process these samples very reliably and efficiently. Other key factors are the range of assays for diseases and biomarkers, cost, ease of use, workflow, and reliability and standardization of lab procedures.

Our QuantiFERON-TB Gold and QuantiFERON-TB Gold Plus tests lead the industry in tuberculosis (TB), the largest killer of any infectious disease. The World Health Organization estimates 10.4 million new active TB cases in 2015 and 1.8 million deaths, including 0.4 million deaths among children. An estimated one-third of the global population is infected with tuberculosis, a condition known as latent TB infection (LTBI). Up to 10% of patients with TB become contagious TB disease during their lifetime. Particularly vulnerable groups include immunocompromised individuals receiving immunosuppressive drugs. The QuantiFERON-TB tests detect latent TB infection to inform decisions to initiate preventative therapy in order to avoid progression to active TB. The global market for TB infection testing is estimated at up to \$1 billion.

QIAGEN also is the global leader in screening technologies for HPV, a viral infection that causes cervical cancer, which kills about 270,000 women a year. Our "gold standard" digene HC2 HPV test is the global leader in HPV screening around the world. In the United States, the market is a leader although vigorous price competition has reduced that business to about 3% of the total market. In other regions, we are a leader in a growing HPV market based on clinical evidence and policy support for HPV testing to reduce cancer. In 2016, we launched a follow-up diagnostic test for women at risk of developing cervical cancer. QIASure Methylation Test stratifies cervical cancer risk by detecting and measuring DNA methylation patterns.

QIAGEN's oncology test portfolio includes a broad range of Personalized Healthcare including regulator-approved companion diagnostics for oncogenes such as KRAS and gene panels for research applications in next-generation sequencing. In 2016, we launched PCR Kit in Europe, a

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unique CE-IVD marked assay for use in blood cancers known as myeloproliferative neoplasms, synergistic with our European market-leading ipsogen JAK2 RGQ PCR Kit for use in Europe. As the world's leading independent developer of molecular technologies, QIAGEN is helping pharmaceutical and biotech companies to develop and commercialize companion diagnostics, the only company offering PCR and NGS technology. In 2016, we initiated additional partnerships with existing and new partners and surpassed a milestone of 20 master collaboration agreements. These partnerships add to our pipeline of companion diagnostics to be commercialized alongside and regulatory approvals along with the drugs.

QIAGEN also offers an extensive range of kits for diagnosing infectious diseases, and is currently seeking regulatory approvals of new tests in additional markets.

A key element of our expansion in Molecular Diagnostics is enabling laboratories to expand on QIAGEN automation platforms. Our flagship PCR platform is QIAasymphony, based on QIAasymphony capabilities. We offer broad portfolios of companion diagnostics and infectious disease testing systems. We also are developing companion diagnostics for our GeneReader NGS System. Samples acid samples purified on our instruments are ready for use in the demanding and sensitive molecular diagnostic applications. We market assays directly via QIAGEN sales channels, through major diagnostic partners or other companies to broaden the distribution of our products.

Applied Testing

Use of molecular technologies is expanding in more areas of life as industry and government seek standardized Sample to Insight solutions to diverse needs. Applied Testing is our term for testing in healthcare and research - such as human identification and forensics, food and environmental testing. The value of genetic "fingerprinting" has been shown for criminal investigations or clinical research, public policy compliance for food safety and genetically modified organisms (GMOs), and for commercial livestock. Molecular testing can be performed by well-trained researchers, but is increasingly also by less-trained personnel provided with easy-to-use, reproducible and reliable testing. Need testing.

QIAGEN has developed relationships with molecular testing laboratories and continues to expand into new fields. In 2016, we launched automated high-throughput solutions to serve the growing demand for reference samples for law enforcement databases. QIAGEN also entered a collaboration with the FBI on Missing Persons to develop and validate a complete NGS solution, including the capability to identify missing persons. Also, manufacturing of our investigator kits for forensic testing met the newly published international standards for forensics. In environmental research, metagenomics gained visibility in 2016 and are increasingly used in studies of microbial communities.

Pharma

QIAGEN has deep relationships with pharmaceutical and biotechnology companies. Increasingly, research efforts increasingly employ genomic information, both to guide research in identifying target populations most likely to respond to particular therapies. We estimate that about half of the research class support research, while the other half supports clinical development, including studies based on genetic information. QIAGEN's bioinformatics solutions also are widely used. As new drugs are commercialized, testing technologies developed in parallel with the drug R&D into the healthcare market as companion diagnostics, which QIAGEN markets in the companion diagnostic class. Healthcare providers use companion diagnostics to test for specific genetic biomarkers, efficacy profiles of drugs in individual patients, achieving the best possible outcomes. A wave of newly discovered biomarkers and companion diagnostics has begun to transform the treatment of other diseases.

In addition to the broad portfolio of molecular technologies, QIAGEN brings to the pharmaceutical co-development programs, intellectual property on platforms and content, extensive research reach, and independence as a company focusing exclusively on these types of technologies. Academia

QIAGEN provides Sample to Insight solutions to leading research institutions around the world. As laboratories continue to use manual, labor-intensive methods for nucleic acid separation and analysis, QIAGEN is focused on enabling labs to replace time-consuming traditional methods with reliable, automated, high-quality nucleic acid extraction and purification technologies. QIAGEN often partners with leading research projects.

As academic institutions increasingly embrace translational research, bridging from d

medicine, our relationships in Academia also support our presence in the Molecular Diagnostics classes. Research in university settings often helps in the development of specific technologies and academic research also can result in scientific publications that validate the usefulness of specific applications.

Global Presence by Category of Activity and Geographic Market

Product Category Information

Net sales for the product categories are attributed based on those revenues related to sales of similarly related revenues including bioinformatics solutions, and revenues derived from other sources.

(in thousands)	2016	2015	2014
Net Sales			
Consumables and related revenues	\$1,166,131	\$1,114,580	\$1,172,728
Instrumentation	171,860	166,406	172,049
Total	\$1,337,991	\$1,280,986	\$1,344,777

Geographical Information

QIAGEN currently markets products in more than 130 countries. The following table shows net sales by geographic market for the past three years (net sales are attributed to countries based on the location of the subsidiaries that have international distribution):

(in thousands)	2016	2015	2014
Net Sales			
Americas:			
United States	\$555,676	\$525,532	\$543,877
Other Americas	71,797	79,578	75,974
Total Americas	627,473	605,110	619,851
Europe, Middle East and Africa	428,055	409,955	451,092
Asia Pacific and Rest of World	282,463	265,921	273,834
Total	\$1,337,991	\$1,280,986	\$1,344,777

QIAGEN has built an increasing presence in key emerging markets as a growth strategy. Key emerging markets - Brazil, Russia, India, China, South Korea, Mexico and Turkey - contributed significantly to our growth.

Growth Drivers and Key Catalysts

We believe the addressable global market totals approximately \$8 billion for QIAGEN products for customers across the continuum of life science research and molecular diagnostics. Key growth drivers and catalysts for our long-term growth are ongoing breakthroughs and insights into molecular biology, the use of high-throughput sequencing, bioinformatics to analyze and interpret molecular information, use of diagnostic platforms, and revenue streams made possible through consumable products.

We have grown substantially with a flexible strategy to accelerate innovation and growth through the development of new platforms, consumables and bioinformatics products, partnering with researchers and academic institutions, or companies or technologies to complement our portfolio.

We are building momentum by continuing to focus on strategic growth drivers and key catalysts:

Differentiated Core technologies: Our growing portfolio of Sample to Insight solutions, including our global leadership in technologies to extract and isolate DNA and RNA from biological samples.

1. Sample technologies with innovative workflows to enable “liquid biopsies” and cutting-edge next-generation sequencing.

2. QuantiFERON-TB: As the modern standard for detecting latent tuberculosis infection, QuantiFERON-TB is used for the control by screening subpopulations of at-risk patients. In 2016, our fourth-generation QuantiFERON-TB, which provides additional insights for patients at greatest risk, gained momentum in the market. We submitted it for FDA approval.

Next-generation sequencing: Our strategic initiative to drive NGS adoption in clinical laboratories has gained significant momentum in 2016 with growing adoption of our innovative GeneReader NGS System. Our GeneReader NGS System is a cost-effective way for laboratories to take advantage of NGS technology and improve workflow efficiency. Our “universal” solutions for NGS users also is growing rapidly.

Personalized Healthcare: We continue to develop and introduce companion diagnostic tests for cancer and other diseases, as well as innovative sample technologies to support our customers. We are a leading partner for pharmaceutical companies in co-developing tests paired with our diagnostic products.

QIASymphony: We are driving global adoption of the QIASymphony automation platform. In 2016, we achieved cumulative placements in 2016, and expanding the content menu of test kits for the platform. Our modular placements and the broad menu of innovative consumables, together, drive sales growth.

Bioinformatics: Our industry-leading bioinformatics portfolio is growing rapidly as we seek solutions for handling huge amounts of genomic data. In 2016, we expanded our portfolio to include solutions for basic and clinical research in oncology and rare inherited diseases, as well as molecular diagnostics.

We continue to integrate bioinformatics with QIAGEN products to create Sample to Insight workflows.

Research and Development

We are committed to expanding our global leadership in Sample to Insight solutions for the life sciences. Our strategy for managing innovation focuses on addressing the most pressing scientific needs. We target our resources to develop promising technologies for use by our customers in Diagnostics, Applied Testing, Pharma and Academia - and to meet the needs of clinical laboratories and research markets.

Innovation at QIAGEN follows parallel paths:

- Creating new systems for automation of workflows - platforms for laboratories, hospitals and research centers to support molecular technologies.

- Expanding our broad portfolio of novel “content” - including assays to detect and measure biomarkers for disease identification.

- Integrating bioinformatics with the testing process - software and cloud-based resources to transform molecular data into useful insights.

As a percentage of sales, our research and development investments are among the highest in the industry. Our employees in research and development work in QIAGEN centers of excellence on the global stage. Our intellectual property portfolio encompasses approximately 2,200 granted patents and pending applications. Strengthening our leadership in the automation of laboratories is a key to driving dissolving barriers to NGS in healthcare and other fields, as well as generating increased demand for our consumables. Our modular QIASymphony platform, enabling hospitals and other customers to adopt or expand their NGS capabilities for diagnostics. QIAGEN also is rolling out a range of performance enhancements and expanding our GeneReader NGS System to add value by addressing new applications and improving output and connectivity. We are commercializing a deep pipeline of assays for preventive screening and diagnosis of cancer and other diseases, biomarkers to guide personalized medicine in cancer and other diseases, and a broad range of diagnostic tests. Our development program generates commercial launches of tests that add value to our QIAGEN portfolio of NGS platforms. In 2016, we launched a comprehensive portfolio of QIAseq panels with the ability to provide unbiased, accurate quantification of DNA, RNA and miRNA, compatible any next-generation sequencing platform. In Applied Testing, we continue to develop new content for human identification, food safety and environmental testing. We are also expanding our extensive portfolio of products for disease pathway research by developing new assays. In addition, we are developing assays for specific applications in key markets such as Clinical Diagnostics. Our bioinformatics teams are developing new software solutions and adding proprietary content to our platform. Our latest research and clinical trends in molecular testing, especially the interpretation of genomic data, are driving next-generation sequencing. In addition, we are integrating these digital technologies with our diagnostic content to provide our customers seamless Sample to Insight workflows.

Sales and Marketing

We market our products in more than 130 countries, mainly through subsidiaries in more than 100 countries. Our greatest sales potential in the Americas, Europe, Australia and Asia. Experienced marketing and sales professionals are

scientists with academic degrees in molecular biology or related areas, sell our products to customers. Key accounts are overseen by business managers to ensure that we serve our customers' procurement processes,

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financing, data on costs and value of our systems, and collaborative relationships. In addition, we work with independent distributors and importers.

Our marketing strategy focuses on providing differentiated, high-quality products across all markets. We provide insight, when possible, integrating components into end-to-end solutions, and enhance our technical excellence and customer service. Our “omni-channel” approach seeks to engage customers through multiple channels - online, by phone, in person, etc. – and to optimize investment in different channels. Digital channels - including our website (www.qiagen.com), product-specific sites and social media – are key actions to drive the growth of digital commercialization channels. Our website makes it easy to browse our online product catalog and ordering. The site can be viewed in Chinese and Japanese, and our eProcurement system is in French, German and Korean. Our eCommerce team works with clients to provide a variety of electronic transactions and all major eProcurement systems. Information contained on our website through it, is not part of this Annual Report.

Our GeneGlobe Genes & Pathways web portal (www.geneglobe.com) is a valuable tool for the research community. Academia, enabling researchers to search and order from approximately 25 million products, including microarrays, kits, NGS assay panels and other products. We have integrated GeneGlobe with our bioinformatics tools for biological interpretation with ordering of relevant assays to accelerate research.

QIAGEN uses a range of tools to provide customers with direct access to technical support, training, and offerings, and enhance our reputation for technical excellence, high-quality products and services. For example, our technical service hotline allows existing or potential customers to discuss their needs, request products and molecular biology procedures, online or via phone, with Ph.D. and M.Sc. level scientists. This communication with customers enables us to identify market needs, learn of new developments, and respond with new products.

We also distribute publications, including our catalog, to existing and potential customers. We provide product information, updates, and articles about existing and new applications. In addition, we conduct seminars at clinical, academic and industrial research institutes worldwide. We conduct webinars to announce new products and special promotions, and we offer personalized electronic newsletters for molecular biology applications.

For laboratories that frequently rely on our consumables, the QIAstock program maintains inventory to meet their requirements. QIAGEN representatives make regular visits to replenish the stock of consumables, automating this process with digital technologies. Easy-to-use online ordering, inventory management, and price changes make QIAstock an efficient system for providing ready access to our products and services worldwide who use this program.

Seasonality

Our business does not experience significant, predictable seasonality. Historically, a significant portion of our sales have been to researchers, universities, government laboratories and private foundations who are funded by government agencies, such as the National Institutes of Health and similar bodies. Our customers may experience increases, decreases or delays in funding arrangements and budget approvals. If our customers' activities are slowed, such as during times of higher unemployment, vacation periods, or changes in government budgets, we may experience fluctuations in sales volumes during the year. However, we expect to see an increase in the recognition of sales.

Intellectual Property, Proprietary Rights and Licenses

We have made and expect to continue to make investments in intellectual property. In 2016, our total intellectual property assets totaled \$19.4 million. While we do not depend solely on any individual patent or trademark, we are highly dependent in the aggregate on technology that we own or license. Therefore, we consider our intellectual property, technologies and products one of the major keys to our business success. We rely on a combination of patents and trademarks to establish and protect proprietary rights. As of December 31, 2016, we owned 1,613 issued patents in the United States, 241 issued patents in Germany and 1,613 issued patents in other major industrialized countries. We have filed 1,613 patent applications. Our policy is to file patent applications in Western Europe, the United States, Japan, and other major industrialized countries. Our patents have a term of 17 years from the date of issue (for patents issued from applications submitted in the United States) or 20 years from the date of filing (in the case of patents issued from applications submitted in other countries).

most other countries have a term of 20 years from the date of filing the patent application. We prosecute and enforce patents and to otherwise protect our proprietary technologies. We know-how, continuing technological innovation and licensing opportunities to develop our position.

Our practice is to require employees, consultants, outside scientific collaborators, suppliers to execute confidentiality agreements upon commencement of their relationships with

confidential information developed by or made known to the individual during the course of their employment will be our confidential and not disclosed to third parties, subject to a right to publish certain information in certain circumstances and to other specific exceptions. In the case of our employees, their inventions conceived by individuals in the course of their employment will be our exclusive property. See “Risk Factors” included in Item 3 above for details regarding risks related to our intellectual property.

Competition

In the Academic and Pharma markets, we believe our primary competition in sample preparation and purification methods, such as phenol extraction, cesium chloride density gradient centrifugation and precipitation. These methods utilize widely available reagents and other chemical supplies from Merck KGaA (MilliporeSigma business), and Roche Diagnostics GmbH (Applied Biosystems business). We differentiate these methods through innovative technologies and products, offering a comprehensive solution for pre-treatment, separation and purification needs and providing significant advantages in terms of speed, reproducibility and ease of use.

We also experience competition in various markets from other companies providing sample preparation and assay solutions. These competitors include, but are not limited to, Promega Corp., ThermoFisher Scientific and Macherey-Nagel GmbH for nucleic acid separation and purification; ThermoFisher Scientific for transfection reagents; and Sigma-Aldrich Corp. and ThermoFisher Scientific for protein purification. We believe our proprietary technologies and products offer significant advantages over competitors in terms of purity, speed, reliability and ease-of-use.

Some of our other products within our molecular diagnostics customer class, such as our products for hepatitis B virus, herpes simplex virus and CMV, compete against existing screening technologies, including tissue culture and antigen-based diagnostic methodologies. Our diagnostic probes include Roche Diagnostics, Abbott, Siemens, Cepheid and Hologic. Key competitive factors in the market for gene-based probe diagnostics and other screening devices are accuracy, reliability, ease of use, standardization, cost, proprietary position, competitors' market presence, distribution channels, regulatory approvals and reimbursement.

We do not believe our competitors typically have the same comprehensive approach to sample preparation or the ability to provide the broad range of technologies and depth of products and services. While we offer a range of manual and fully automated solutions, we believe we offer the value of standardized protocols and therefore, more reliable results. We also believe our integrated strategic approach gives us a high quality of sample technologies-an area in which we have a unique market and leadership position. We offer reliable molecular assay solutions, which increasingly are being applied in emerging markets and Applied Testing.

Current and potential competitors may be in the process of seeking FDA or foreign regulatory approvals for new products. Our continued future success will depend in large part on our ability to maintain our competitive position, competing products, expand our market presence and preserve customer loyalty. There is no assurance we will be able to compete effectively in the future or that development by others will not render our products non-competitive.

Suppliers

As part of our quality assessment procedures, we periodically evaluate the performance of our current suppliers, potential new alternative sources of such materials and components, and the performance of our existing suppliers. We buy materials for our products from many suppliers, and are not dependent on any single group of suppliers for our business as a whole. Raw materials generally include chemicals, polymers, plastics and packaging. Raw materials are generally readily available at competitive prices from many suppliers. Certain raw materials are produced under our specifications, so we closely monitor our suppliers to ensure adequate supplies. We believe we maintain inventories at a sufficient level to ensure the availability of raw materials to guard against normal volatility in availability.

Government Regulations

We are subject to a variety of laws and regulations in the European Union, the United States and other countries, and the scope of the regulation varies depending on the country or defined economic region.

things, the research, development, testing, clinical trials, manufacture, storage, record and commercial sales and distribution, of many of our products.

European Union Regulations

In the European Union, in vitro diagnostic medical devices (IVDs) are regulated under (the IVD Directive) and corresponding national provisions. The IVD Directive requires that manufacturers meet the requirements set out

in an annex of the directive. These requirements include the safety and efficacy of the Directive, the Member States presume compliance with these essential requirements if conformity with the relevant national standards transposing the harmonized standards has been published in the Official Journal of the European Communities. These harmonized standards are the quality standard for medical device manufacturers.

IVD medical devices, other than devices for performance evaluation, must bear the CE mark if they are placed on the market. The CE mark is a declaration by the manufacturer that the product meets the provisions of the relevant legislation implementing the relevant European Directive. A manufacturer must follow the procedure of the EC Declaration of conformity to obtain this CE mark. Each European country must adopt its own laws, regulations and administrative provisions implementing the IVD Directive. Member States may not create any obstacle to the placing on the market in their territory of devices bearing the CE marking according to the conformity assessment procedure. In 2012, the European Commission (EC) adopted a proposal for new EU regulations for IVDs. The regulations finalized will impose additional regulatory requirements on IVDs used in the EU. The regulations were signed into law in early 2017 with a 5 year implementation requirement. Once implemented, manufacturers will have to comply with the new requirements.

Other Country Specific Requirements

In many countries outside of the United States and the EU, coverage, pricing and reimbursement are required. Additionally, many of the major markets are adopting regulations and requirements from the U.S. Food and Drug Administration (FDA) which require additional submission activities and management requirements.

We are also required to maintain accurate information and control over sales and distribution in the purview of the Foreign Corrupt Practices Act, its books and records provisions and U.S. Regulations

In the United States, in vitro diagnostic kits are subject to regulation by the FDA as medical devices. They must be approved before they can be marketed. Failure to comply with applicable U.S. requirements can result in a variety of administrative or judicial sanctions, such as FDA refusal to approve pending applications, warning letters, recalls, product seizures, total or partial suspension of production or distribution, injunctions, and criminal prosecution. In addition, some of our test kits are sold for research use only and are not intended to promote these tests for clinical diagnostic use, and they are labeled “For Research Use Only” and “Not for Sale in the U.S.” by the FDA.

In Vitro Diagnostics

The FDA regulates the sale or distribution of medical devices, including in vitro diagnostic devices. Laboratory Developed Tests (LDTs). The information that must be submitted to the FDA in order to market a new medical device varies depending on how the medical device is classified. Medical devices are classified into one of three classes on the basis of the controls deemed by the FDA to be necessary to assure safety and effectiveness. Class I devices are subject to general controls, including labeling controls, and adherence to the FDA’s quality system regulations, which are device-specific good manufacturing practices. Class II devices are subject to general controls and special controls, including performance standards and premarket review; most Class II devices require 510(k) clearance, and Class III devices require premarket approval before they can be sold in the United States. The payment of a fee to the FDA is usually required when a 510(k) notice or premarket approval application is submitted. A 510(k) Premarket Notification. A 510(k) notification requires the sponsor to demonstrate that the device is substantially equivalent to another marketed device, termed a “predicate device”, that is already on the market and for which a premarket approval application (PMA) was not required. A device is considered substantially equivalent to a predicate device if it has the same intended use and technological characteristics as the predicate device or, if it has different technological characteristics, where the information submitted to the FDA demonstrates that the device is at least as safe and effective as the predicate device.

The FDA generally issues a decision letter within 90 days of receipt of the 510(k) if it issues a first action letter requesting additional information within 75 days. Most 510(k)s do not require a decision letter but a minority will. Requests for additional data, including clinical data, will increase the time to decision. If the FDA believes that the device is not substantially equivalent to a predicate device, it will issue a "Substantially Equivalent" letter and designate the device as a Class III device, which requires the approval of a PMA before the new

device may be marketed. Under certain circumstances, the sponsor may petition the FDA for a determination of the new device and reclassify the new device as a Class I or Class II device. The FDA will reevaluate the 510(k) review process, and we cannot predict what if any changes will be made to the Premarket Approval. The PMA process is more complex, costly and time consuming than the 510(k) process and will be supported by more detailed and comprehensive scientific evidence, including clinical data, to demonstrate the efficacy of the medical device for its intended purpose. If the device is determined to be a Class II device, it may not begin a clinical trial until it submits an investigational device exemption (IDE) and receives FDA approval to begin the trial.

After the PMA is submitted, the FDA has 45 days to make a threshold determination of whether the PMA appears to permit a substantive review. If the PMA is complete, the FDA will file the PMA. The FDA's goal review time for a PMA that is 180 days from the date of filing, although in practice, the review time can be longer. Questions from the FDA, requests for additional data and referrals to advisory committees can delay the review considerably. The total process may take several years and there is no guarantee that the device will be approved. If approved, the FDA may limit the indications for which the device may be marketed. The FDA may require additional clinical data as a condition of approval or after the PMA is approved. Any changes to the device or the PMA require a supplemental PMA to be submitted and approved before changed medical device may be marketed. Any products sold by us pursuant to FDA clearances or approvals will be subject to post-market surveillance by the FDA, including record keeping requirements, reporting of adverse experiences with the device, and restrictions on the advertising and promotion of our products. Device manufacturers are required to register their devices with the FDA and are subject to periodic inspections by the FDA and compliance with applicable FDA requirements can result in, among other things, warning letters, recalls or seizures of products, total or partial suspension of production, refusal of the FDA to grant PMA approval for new devices, withdrawal of 510(k) clearances and/or PMA approvals.

Regulation of Companion Diagnostic Devices

If a sponsor or the FDA believes that a diagnostic test is essential for the safe and effective use of a therapeutic product, the sponsor of the therapeutic product will typically work with a companion diagnostic device, or IVD. IVDs are regulated by the FDA as medical devices. In 2014, the FDA issued a guidance document in 2014, entitled "In Vitro Companion Diagnostic Devices" that is intended to provide guidance to companion diagnostic devices and companies developing therapeutic products that develop companion diagnostic for the safe and effective use of the product. The FDA defined a companion diagnostic as a device that provides information that is essential for the safe and effective use of the therapeutic product. The FDA expects that the therapeutic sponsor will address the need for an approved companion diagnostic device in its therapeutic product development plan and that, in most cases, the therapeutic product and the IVD companion diagnostic will be developed contemporaneously.

The FDA also issued a draft guidance on July 15, 2016, entitled, "Principles for Codevelopment of a Diagnostic Device with a Therapeutic Product" to serve as a practical guide to assist therapeutic product sponsors in developing a therapeutic product and an accompanying IVD companion diagnostic device. The FDA indicated that it will apply a risk-based approach to determine the regulatory pathway for companion diagnostic devices, as it does with all medical devices. This means that the regulatory pathway for a companion diagnostic device will be based on the risk to patients, based on the intended use of the IVD companion diagnostic device and the therapeutic product, and the reasonable assurance of safety and effectiveness. The two primary types of marketing pathways for a companion diagnostic device are clearance of a premarket notification under Section 510(k) of the Federal Food, Drug, and Cosmetic Act, or PMA. We expect that any IVD companion diagnostic device used with our drug candidates will utilize the PMA pathway and that a clinical trial for the companion diagnostic device, or IDE, will have to be completed before the PMA may be submitted.

The FDA expects that the therapeutic sponsor will address the need for an IVD companion diagnostic device in its therapeutic product development plan and that, in most cases, the therapeutic product and the IVD companion diagnostic device will be developed contemporaneously. If the companion diagnostic device is used to make treatment decisions such as patient selection, treatment assignment, or treatment arm, the device will be considered a significant risk device for which a clinical trial will be required.

The sponsor of the IVD companion diagnostic device will be required to comply with the requirements that apply to clinical trials of significant risk devices. If the diagnostic test and the therapeutic device both require support their respective approvals, the clinical trial must meet both the IDE and IND requirements.

PMAs must be supported by valid scientific evidence, which typically requires extensive preclinical, clinical and manufacturing data, to demonstrate to the FDA's satisfaction the safety and effectiveness of the device. For diagnostic tests, a PMA typically includes data regarding analytical and clinical performance. After review of the PMA, the FDA will conduct a pre-approval inspection of the manufacturing facility to ensure compliance with the Quality System Regulation, or QSR, which requires manufacturing process controls, documentation and other quality assurance procedures. FDA review of an initial PMA is typically completed within 90 days of submission.

If the FDA evaluations of both the PMA and the manufacturing facilities are favorable, the FDA will issue an approval order or an approvable letter, which usually contains a number of conditions of approval that must be met for final approval of the PMA. If the FDA's evaluation of the PMA or manufacturing facilities is not favorable, the FDA will send the applicant a not approvable letter or an order denying approval. A not approvable letter typically identifies deficiencies in the application and, where practical, will identify what is necessary to make the PMA approvable. The FDA may require the applicant to determine that additional clinical trials are necessary, in which case the PMA approval may be delayed for several years while the trials are conducted and then the data submitted in an amendment to the PMA. The PMA may be withdrawn by the FDA if compliance with post approval requirements, conditions of approval, or quality standards is not maintained or problems are identified following initial marketing.

After approval, the use of an IVD companion diagnostic device with a therapeutic product is permitted. The FDA requires instructions for use in the labeling of both the diagnostic device and the corresponding therapeutic product. A diagnostic test that was approved through the PMA process or one that was cleared through the 510(k) process and is on the market will be subject to many of the same regulatory requirements that apply to PMA devices. The FDA has approved a number of drug/diagnostic device companions in accordance with the Guidance for Industry: Diagnostic Companion Devices. In September 2013, the FDA issued its final rule on the Unique Device Identifier. This rule requires the use of a registered identifier, including a special barcode, on all FDA regulated medical devices. The rule was effective with the first deadline of September 24, 2014 being established for all Class III medical devices. This rule impacted the hc2, QuantiFERON, and therascreen products. We established a task force to ensure compliance with the rule but this will place additional administrative and regulatory burden on us related to the implementation of the rule for these products to the new regulation. Class II and Class I products are required to have their deadlines extended to September 24, 2016 and 2018, respectively. QIAGEN was fully compliant with the new rule by the September 24, 2014 deadline and we continue to work to ensure that we will be able to meet the remaining deadlines for Class II and Class I products. The requirement for additional compliance oversight now that it has been implemented. The requirement for additional oversight is confirmed as part of our annual reporting and PMA submissions. They are also assessed as part of our annual FDA.

Some of our products are sold for research purposes in the U.S., and labeled "For Research Use Only - Not for Clinical Biology applications." In November 2013, the FDA issued a final Guidance for Industry: Distribution of In Vitro Diagnostic Products Labeled for Research Use Only. The Guidance, RUO refers to devices that are in the laboratory phase of development, and RUC refers to devices that are in the product testing phase of development. These types of devices are subject to different regulatory controls. Because we do not promote our RUOs for clinical diagnostic use, we do not promote our RUCs to clinical laboratories with respect to these tests, we believe that these tests are exempt from many of the other requirements. If the FDA were to disagree with our designation of any of these devices as RUO or RUC, we would stop selling the product until we obtain appropriate regulatory clearance or approval. RUOs may be used by some customers without our knowledge in their LDTs, which are used for clinical use. However, as previously noted, we do not promote these products for use in clinical laboratories or for use in LDTs for clinical diagnostic use.

On October 3, 2014, the FDA published notices in the Federal Register formally announcing the start of a 120-day public comment period, which ended on February 2, 2015, for the Draft Guidance for Industry: Food and Drug Administration Staff, and Clinical Laboratories: Framework for Regulatory Oversight of Laboratory Developed Tests (LDTs), and Docket No. FDA-2011-D-0357 for Draft Guidance for Industry, Food and Drug Administration Staff, and Clinical Laboratories: FDA Notification and Medical Device Reporting for Laboratory Developed Tests. The draft Guidances were withdrawn in January 2017, and replaced by an informal non-enforceable guidance.

some of the feedback that it received from QIAGEN and other companies and industry groups. The company will continue to assess the potential impact of the discussion paper on the issuance of any new draft GMPs and will continue to work with the executive task force that is monitoring and participating in the draft process to insure that the company's GMPs reflect the latest developments in this area.

HIPAA and Other Privacy and Security Laws

Numerous privacy and data security laws apply to personal information, including health information, and the company is evaluating their application. For example, the Health Insurance Portability and Accountability Act of 1996, the Health Information Technology for Economic and Clinical Health Act, and their implementing regulations, among others, have significant implications for the company's uses,

disclosures and security of identifiable health information (protected health information) by health care providers, health plans or health care clearing houses (covered entities). HIPAA requires covered entities' uses and disclosures of PHI and requires the implementation of administrative safeguards to ensure PHI is kept secure. HIPAA also applies to organizations that create, receive, maintain or transmit PHI for or on behalf of covered entities (business associates). Business associates are required to comply with certain privacy and all of the security standards of HIPAA. Business associates are also required to comply with breach notification standards established by HIPAA. The HIPAA breach notification standards require covered entities to notify affected individuals, the government, and in some cases, local media, of a breach of PHI that has not been secured by encryption. The breach notification standards also require covered entity customers of their own breaches of unsecured PHI so that the relevant individuals can take the required notifications. If we were to act as a HIPAA covered entity or business associate, we would be subject to these obligations.

Almost all states have adopted data breach notification laws relating to the "personal information" of individuals. Personal information typically includes an individual's name or initials coupled with social security number, state-issued identification number or other information that could lead to identity theft. While the specifics of these laws vary, most require notification to affected individuals (and some require notification to the state in the event of a breach). Other laws of some states require that we comply with data security standards when we receive or maintain personal information regarding individuals, including financial information. The Genetic Information Nondiscrimination Act of 2008, also referred to as GINA, is designed to protect individuals from discrimination in the health insurance and employment contexts because of DNA-based information about their health. GINA prohibits covered employers from requesting, obtaining, or using employee genetic information (with limited exceptions), and prohibits covered health insurers from requesting genetic information for underwriting purposes they may already have for purposes of making eligibility, premium, or coverage-related decisions.

Many states have also adopted genetic testing and privacy laws. These laws typically prohibit the use of genetic testing as well as consent for the disclosure of genetic test results and otherwise restrict the use of genetic testing results. A few states have adopted laws that give their residents property rights in their genetic information. If our institutional and physician customers are covered entities under HIPAA and must obtain patient consent to de-identify information so that we may provide services. When PHI is de-identified in accordance with HIPAA, disclosure of PHI is authorized by a patient, HIPAA does not impose any compliance requirements. However, the use and disclosure of the information may be limited by contract or the terms of the agreement. We are subject to enforcement by state attorneys general who have authority to enforce these laws. Accordingly, we maintain an active privacy and data security program designed to address these requirements.

Privacy and data security laws, including those relating to health information, are constantly changing and evolving. As our activities evolve and expand, additional laws may be implicated, for example, state laws that impose restrictions on the transfer, access, use, and disclosure of health and financial information. These laws impact our business either directly or indirectly. Our failure to comply with these laws could result in significant changes in these laws could significantly impact our business and future business. We are subject to regulatory action or lawsuits in the event we fail to comply with applicable laws. We may be liable in the event any of the personal information we maintain is lost or otherwise disclosed, used, accessed or disclosed.

Compliance with Fraud and Abuse Laws

We have to comply with various U.S. federal and state laws, rules and regulations pertaining to the healthcare industry, including anti-kickback laws and physician self-referral laws, rules and regulations. Violations of these laws are punishable by criminal and civil sanctions, including, in some instances, exclusion from participation in federal healthcare programs, including Medicare and Medicaid.

Anti-Kickback Statute

The federal Anti-Kickback Statute prohibits persons from knowingly or willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, in exchange for or to induce:

- The referral of an individual for a service or product for which payment may be made by a government-sponsored healthcare program; or
 - Purchasing, ordering, arranging for, or recommending the ordering of, any service or product made by a government-sponsored healthcare program.
- The definition of “remuneration” has been broadly interpreted to include anything of

certain discounts, waiver of payments, and providing anything at less than its fair market value. The courts have interpreted the law to mean that if "one purpose" of an arrangement is intended to circumvent the Anti-Kickback Statute, the arrangement is prohibited. The Anti-Kickback Statute is broad and prohibits many arrangements and practices throughout the healthcare industry. Recognizing that the Anti-Kickback Statute is broad and may prohibit many legitimate or beneficial arrangements, the Office of Inspector General of the Department of Health and Human Services issued regulations, commonly known as "safe harbors." These safe harbors set forth conditions under which an arrangement will assure healthcare providers, including medical device manufacturers, that they will not be in violation of the Anti-Kickback Statute. Although full compliance with these safe harbor provisions ensures compliance with the Anti-Kickback Statute, full compliance is often difficult and the failure of a transaction to meet the requirements of a specific safe harbor does not necessarily mean that the transaction or arrangement is in violation of the Anti-Kickback Statute will be pursued. However, conduct and business arrangements that do not meet an applicable safe harbor may result in increased scrutiny by government enforcement and potential civil and statutory penalties for violating the Anti-Kickback Statute include imprisonment for up to five years and fines up to \$25,000 per violation. In addition, through application of other laws, conduct that violates the Anti-Kickback Statute also give rise to False Claims Act lawsuits, civil monetary penalties and possible exclusion from Medicare and other federal healthcare programs. In addition to the Federal Anti-Kickback Statute, many states have their own kickback laws. Often, these laws closely follow the language of the federal law, although they may have different scope, exceptions, safe harbors or sanctions. In some states, these anti-kickback laws apply not only to government health care program but also with respect to other payors, including commercial payors.

Other Fraud and Abuse Laws

The federal False Claims Act (FCA) prohibits any person from knowingly presenting or causing to be presented a false claim or knowingly making, or causing to be made, a false statement to obtain payment from or the avoidance of payment from, a federal healthcare program. A person found in violation of the FCA can be subject to fines and penalties of three times the amount of the false claim plus mandatory civil penalties of between \$5,500 and \$11,000 for each separate false claim. A qui tam action can be brought by any individual on behalf of the government, a "qui tam" action, and the individual bringing the action, or, more commonly, as a "whistleblower," who may share in any amounts paid by the government as a result of the action and penalties or by way of settlement. In addition, certain states have enacted laws mandating that healthcare providers and legislative activity is expected to increase. Qui tam actions have increased significantly in recent years, and a large number of healthcare companies, including medical device manufacturers, to defend themselves against such actions or penalties or be excluded from Medicare, Medicaid or other federal or state healthcare programs as a result of arising out of such actions.

The OIG also has authority to bring administrative actions against entities for alleged violations of the Anti-Kickback Statute and the Stark Law. The OIG may seek to impose civil monetary penalties of up to \$50,000 for each violation or failure plus, in certain circumstances, three times the amount of the illegal remuneration. Typically, exclusions last for five years.

In addition, we must comply with a variety of other laws, such as laws prohibiting false or misleading claims to Medicare and Medicaid, all of which can also be triggered by violations of federal anti-kickback laws; the Federal Trade Commission Act of 1996, which makes it a federal crime to commit health care fraud; the Federal Trade Commission Act and similar laws regulating advertising and marketing practices; and the Federal Trade Commission Act and similar laws regulating advertising and marketing practices. There are also an increasing number of state "sunshine" laws that require manufacturers and healthcare providers to disclose to governments on pricing and marketing information. Several states have enacted legislation requiring healthcare companies to, among other things, establish marketing compliance programs, file periodic public disclosures on sales and marketing activities, and to prohibit or limit certain marketing practices. In addition, a federal law known as the Physician Payments Sunshine Act, requires manufacturers to track and report to the federal government certain payments and other transfers of value to physicians, hospitals and ownership or investment interests held by physicians and their immediate family members. The government discloses the reported information on a publicly available website. If we fail to comply with these laws or to otherwise comply with these laws, we could be subject to the penalty and other consequences of the federal authorities.

Environment, Health and Safety

We are subject to laws and regulations related to the protection of the environment, the handling, transportation and disposal of medical specimens, infectious and hazardous waste. For example, the U.S. Occupational Safety and Health Administration (OSHA) has established standards relating specifically to workplace safety for healthcare employers in the U.S. This includes the implementation of multi-faceted programs to protect workers from exposure to blood-borne pathogens and C, including preventing or minimizing any exposure through needle stick injuries and other biological hazards.

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materials and laboratory supplies are classified as hazardous materials and are subject to regulation by the following agencies: the U.S. Department of Transportation, the U.S. Public Health Service, the Federal Aviation Administration, and the International Air Transport Association.

Reimbursement

United States

In the United States, payments for diagnostic tests come from several sources, including private health plans, maintenance organizations and preferred provider organizations; government health programs such as Medicare and Medicaid; and, in certain circumstances, hospitals, referring laboratories or the patient. Private health plans and state governments in the United States have pursued methods to reduce the cost of diagnostic testing. In 2010, the United States enacted major healthcare reform legislation known as the Patient Protection and Affordable Care Act (ACA). Such changes have had, and are expected to continue to have, an impact on reimbursement rates. Payment rates are affected by across-the-board federal budget cuts commonly referred to as sequestration, the Centers for Medicare & Medicaid Services (CMS), the federal agency responsible for administering Medicare and Medicaid, reduced Medicare payments to providers by 2% annually beginning in 2013. In the United States, a third-party payor's decisions regarding coverage are often based, in large part, by the specific Current Procedural Terminology, or CPT, code used to identify the service. The American Medical Association, or AMA, publishes the CPT, which is a listing of descriptive terms and codes for medical services and procedures. The purpose of the CPT is to provide a uniform language that can be used by surgical, and diagnostic services and therefore to ensure reliable nationwide communication between patients, and third-party payors.

A manufacturer of in vitro diagnostic kits or a provider of laboratory services may request assignment of a CPT code for a new product. Assignment of a specific CPT code ensures routine product reimbursement by test by both private and government third-party payors.

The AMA has specific procedures for establishing a new CPT code and, if appropriate, for modifying an existing code to incorporate a new test into an existing code. If the AMA concludes that a new code is warranted, it will assign a new code. If unnecessary, the AMA will inform the requestor how to use one or more existing codes. While the AMA's decision is pending, billing and collection may be sought under an existing code. A manufacturer or provider may decide not to request assignment of a CPT code and instead use an existing code for reimbursement purposes. However, use of such codes may result in more frequent requests for clinical documentation from the third-party payor and in lower reimbursement rates, varying by geographic location.

In 2012, the AMA added 127 new CPT codes for molecular pathology services that replaced the previous "stacking" method. These new CPT codes are biomarker specific and were designed to replace the previous "stacking" method of molecular pathology testing, which involved "stacking" a series of non-biomarker specific codes to represent the testing performed. The new CPT codes were issued final national reimbursement prices. These federal reimbursement amounts are widely acknowledged to be lower than the previous "stacking" method, but commercial payors and Medicare contractors are still using the "stacking" method. Coverage and reimbursement policies for the testing described by these new CPT codes may soon be extending to other areas of molecular pathology testing as CMS begins to base CPT laboratory code payment on third party payer rates under the Patient Protection and Affordable Care Act (PAMA) passed in April 2014.

Coverage Decisions. When deciding whether to cover a particular diagnostic test, private health plans generally consider whether the test is a contractual benefit and, if so, whether it is reasonable and necessary for the diagnosis or treatment of illness and injury. Most third-party payors do not cover experimental or investigational tests. Coverage decisions are often influenced by current standards of practice and clinical data, particularly at the local level. The Centers for Medicare & Medicaid Services (CMS) which is the government agency responsible for administering Medicare and Medicaid has the authority to make coverage determinations on a national basis, but most Medicare and Medicaid contractors make coverage decisions at the local level by contractors that administer the Medicare program in specified geographic areas. Private third-party payors have separate processes for making coverage determinations, and private payors may or may not follow Medicare's coverage decisions. If a third-party payor has a coverage determination, it may not follow Medicare's coverage decisions.

diagnostic test, billing for that test must comply with the established policy. Otherwise reimbursement decisions on a case-by-case basis.

Payment. Payment for covered diagnostic tests is determined based on various method payment systems and fee schedules. In addition, private third-party payors may negotiate with providers or

set rates as a percentage of the billed charge. Diagnostic tests furnished to Medicare in a bundled payment made to the hospital under Medicare's Inpatient Prospective Payment Groups (DRGs) depending on the patient's condition. Payment for diagnostic tests furnished in outpatient circumstances is made based on the Clinical Laboratory Fee Schedule, and not to each covered CPT code, or through the Outpatient Prospective Payment System (OPPS), the equivalent of the DRG model. The law technically requires fee schedule amounts to be increased by the increase in the consumer price index (CPI) for the prior year, but Congress has frozen the schedule. Medicaid programs generally pay for diagnostic tests based on a fee schedule, but reimbursement varies by state.

European Union

In the European Union, the reimbursement mechanisms used by private and public health systems, reimbursement is determined by guidelines established by the legislator. In other countries, elsewhere, inclusion in reimbursement catalogues focuses on the medical usefulness, the cost to patients and the healthcare system. Acceptance for reimbursement comes with cost, and reimbursement rates can again vary by country.

Conflict Minerals

Recent U.S. legislation has been enacted to improve transparency and accountability regarding conflict minerals from mines located in the conflict zones of the Democratic Republic of Congo and the Ivory Coast. The term conflict minerals currently encompasses tantalum, tin, tungsten (or their ores) and gold. In our instrumentation product components which we purchase from third party suppliers, we require manufacturers, such as us, to investigate our supply chain and disclose if they have any conflict minerals originating in the DRC or adjoining countries. We conduct due diligence measures and disclose the presence of conflict minerals in our products and the source of any such conflict minerals. Because we do not source conflict minerals directly from smelters or refineries, we rely on our suppliers to specify to us their Conflict Minerals status. We disclosed our most recent Conflict Minerals findings to the SEC on Form SD to the Commission for the calendar year ending December 31, 2015 on Form SD on May 23, 2016. We will continue to disclose disclosure to the Securities Exchange Commission as required.

Organizational Structure

QIAGEN N.V. is the holding company for more than 50 consolidated subsidiaries, most of which are engaged in the function of distributing our products and services on a regional basis. Certain subsidiaries are also engaged in development or production activities. A listing of our significant subsidiaries and their locations is included in Exhibit 8.1 to this Annual Report.

Description of Property

Our production and manufacturing facilities for consumable products are located in Germany and the United Kingdom. Our facilities for software development are located in the United States, Germany, Romania. In recent years, we have made investments in automated and interchangeable equipment to increase our production capacity and improve efficiency. Our production and manufacturing operations benefit from sophisticated inventory control. Production management personnel are highly educated with advanced degrees in engineering, business and science. We also have installed and continue to upgrade systems that are included in our integrated information and control system based on the SAP software from SAP AG. Worldwide, we use SAP software to integrate most of our operating systems. Our total property, plant and equipment totaled \$74.5 million, \$97.8 million and \$86.6 million at December 31, 2014, 2015 and 2016, respectively. We have an established quality system, including standard manufacturing and documentation procedures that products are produced and tested in accordance with the FDA's Quality System Regulation (21 CFR 312.60) and Good Manufacturing Practice (cGMP) requirements. For cGMP production, special attention is given at Hilden, Germany, and Germantown, Maryland. These facilities operate in accordance with the FDA's Quality System Regulation (21 CFR 312.60). The consumable products manufactured at QIAGEN GmbH in Germany, and QIAGEN Inc. in the United States are produced under ISO 9001: 2008, ISO 13485:2012, ISO 13485:2003 CMDCAS. Our commitment to provide our customers with high-quality, state-of-the-art sample and analysis solutions is supported by our Quality Management system.

Our facilities in Hilden, Germany, currently occupy a total of approximately 776,000 square feet pursuant to separate contracts, the last of which expires in 2018. In December 2016, we purchased additional office and warehouse space of approximately 4,400 square feet which we plan to use in 2017. During 2015, we purchased additional office and warehouse space of approximately 4,400 square feet. Our production capacity is increased through our manufacturing and research facilities in Hilden, Germany. SPARTON LLC owns a 24-acre site

in Germantown, Maryland. The 285,000 square foot Germantown facility consists of arrangement and can accommodate over 500 employees. There is room for future expansion of facility space. In 2015, we completed expansion of our research and production facilities and renovations of administrative facilities in Germantown, Maryland.

We lease a facility in Frederick, Maryland comprising a total of 42,000 square feet for distribution and research operations. We also lease facilities in Massachusetts with 44 GeneReader NGS system development and 39,100 square feet in Beverly for enzyme development. We have a total of 33,500 square feet in Redwood City for Bioinformatics. Additionally, we have facilities in China and Manchester, United Kingdom for manufacturing, warehousing, distribution and logistics. We completed expansion work in Manchester to add additional research and development space. In the world we lease smaller amounts of space. Our corporate headquarters are located in Leiden, Netherlands.

We believe our existing production and distribution facilities can support anticipated growth for the next 12 months. Our production and manufacturing operations are subject to various federal, state and local regulations, including environmental regulations. We do not believe we have any material issues related to these regulations.

Item 4A. Unresolved Staff Comments

Not applicable.

Item 5. Operating and Financial Review and Prospects

This section contains a number of forward-looking statements. These statements are based on our current expectations, and actual results may differ materially. Among the factors that could cause actual results to differ from management's expectations are those described in "Risk Factors" and "Forward-looking Information" in this Annual Report.

Results of Operations

Overview

We are a leading global provider of Sample to Insight solutions to transform biological data into actionable insights. QIAGEN sample technologies isolate and process DNA, RNA and proteins from blood or tissue. Assay technologies make these biomolecules visible and ready for analysis. Bioinformatics solutions integrate software and cloud computing to analyze large volumes of biological data and report relevant, actionable insights. Our automation solutions streamline and cost-effective molecular testing workflows.

We sell our products - consumables, automated instrumentation systems using those technologies - to analyze and interpret the data - to four major customer classes:

- **Molecular Diagnostics** - healthcare providers engaged in many aspects of patient care in areas of oncology, infectious diseases and immune monitoring
- **Applied Testing** - government or industry customers using molecular technologies in food safety, diagnostics and food safety testing

- **Pharma** - pharmaceutical and biotechnology companies using molecular testing for drug discovery, translational medicine and clinical development efforts

- **Academia** - researchers exploring the secrets of life such as the mechanisms and pathways of disease, translating that research into drug targets or commercial applications

We market products in more than 130 countries, mainly through subsidiaries in markets with high growth potential in Europe, Asia, the Americas and Australia. We also work with specialized distributors and importers. As of December 31, 2016, we employed approximately 4,700 people in more than 130 countries.

Recent Acquisitions

We have made a number of strategic acquisitions since 2014, targeting innovative technologies and key positions in high-growth areas of molecular diagnostics and research. These transactions include the acquisition of offerings and technology platforms, as well as our geographic presence. They include:

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In January 2017, QIAGEN acquired OmicSoft Corporation, a privately held company of North Carolina, to expand our industry-leading bioinformatics offering with capabilities to visualize and mine large institutional and publicly available “omics” datasets. The

solutions meet a growing need in discovery and translational research to access and measure RNA and other biological variables generated by next-generation sequencing studies. During 2016, QIAGEN acquired Exiqon A/S, a publicly traded company based in Vedbaek, Denmark, in a leadership position in Sample to Insight solutions for RNA analysis. Exiqon's RNA analysis solutions and Locked Nucleic Acid (LNA) technology, are used by academic, biotech and pharmaceutical companies to explore correlations between gene activity and the development of cancer and other diseases. In 2016, we acquired the remaining Exiqon shares for DKK 627.4 million (\$95.2 million) for approximately 94.52% of the outstanding common shares. We paid the remaining Exiqon shares subsequent to the acquisition date for \$5.5 million in cash as of December 31, 2016.

In November 2015, we acquired MO BIO Laboratories, Inc., a privately-held provider of sample technologies for studies of the microbiome and metagenomics, analyzing the impact of microbial composition on the human environment. The acquisition added a complementary portfolio of sample technologies for next-generation sequencing. MO BIO kits, based on proprietary Inhibitor Removal Technology, are used to remove DNA from challenging samples like soil, water, plants and stool.

In March 2015, we acquired an innovative technology that enables enrichment and microRNA analysis of cells (CTCs) from blood samples from AdnaGen GmbH, a subsidiary of Alere Inc. This acquisition added to our pipeline of technologies for molecular testing through non-invasive liquid biopsies as compared to traditional tissue biopsies. Other assets acquired include two marketed CE-IVD marked products: AdnaTest Prostate Cancer, for treatment monitoring and detection of tumor relapse.

In February 2015, we announced the spin-off of teams and activities of QIAGEN Marseille to a newly created majority-owned and fully consolidated entity. In the divestiture, QIAGEN Marseille transferred all its liabilities, with the exception of its intellectual property portfolio, to a stand-alone company. The company will commercialize the ipsogen line of products, including companion diagnostics for blood-based tests. We made a tender offer to acquire the remaining QIAGEN Marseille shares. We acquired 100% of the shares and held 100% of the QIAGEN Marseille shares as of December 31, 2016.

In December 2014, we acquired the enzyme solutions business of Enzymatics, a U.S. company that provides an estimated 80% of all next-generation sequencing workflows. The broad Enzymatics portfolio is a leading offering of universal NGS products, advancing our strategy to drive the adoption of NGS.

In April 2014, we acquired BIOBASE, a provider of expertly curated biological data and bioinformatics solutions. BIOBASE is located in Wolfenbuettel, Germany, expanding our bioinformatics solutions with BIOBASE core competencies in the fields of inherited diseases and pharmacogenomics. QIAGEN integrated the BIOBASE Knowledge Base, adding value for customers in interpreting genomic data from next-generation sequencing. Our financial results include the contributions of recent acquisitions and the QIAGEN Group's operating expenses, as well as costs related to the transactions and integration of the acquired companies and the closure of certain facilities.

We determined that we operate as one business segment in accordance with ASC Topic 280. The chief operating decision maker (CODM) makes decisions on business operations and resources on a consolidated basis for the QIAGEN Group as a whole. Considering the acquisitions made during 2016, we continue to operate as one business segment. We provide certain revenue information by customer class to allow management to understand the performance of the business. This information is estimated using certain assumptions to allocate revenue among the business segments. Year Ended December 31, 2016, Compared to 2015

Net Sales

In 2016, net sales grew 4% to \$1.34 billion compared to \$1.28 billion in 2015, including the effect of adverse currency movements. Excluding the effect of adverse currency movements, organic business growth contributed 2 percentage points to total sales growth while nearly two percentage points of additional growth was contributed by the 2015 acquisition of MO BIO Laboratories Inc, a leader in sample technologies for metagenomics and the June 2016 acquisition of Exiqon A/S, a leader in RNA analysis technologies. Despite a decline in the sharply lower U.S. sales of HPV tests, which created approximately two percentage points of decline, excluding the effect of adverse currency movements, net sales rose approximately 8% in 2016. All regions contributed to the higher sales of consumables and related revenues (+5% / 87% of sales) and instruments (+1% / 13% of sales).

Net sales by geographic region

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	Full-year 2016		
	Sales	%	% of
	(In \$ m) changesales		
Americas ⁽¹⁾	\$627	4%	47%
Europe / Middle East / Africa	\$428	4%	32%
Asia-Pacific / Japan	\$279	10%	21%

Top 7 emerging markets⁽²⁾ \$209 13% 16%

(1) Americas excluding U.S. HPV (+6%)

(2) Top 7 emerging markets: Brazil, Russia, India, China, South Korea, Mexico and Turkey
FY 2016: Rest of world represented less than 1% of net sales.

Geographic regions: The Asia-Pacific / Japan region led the geographic performance in 2016, offsetting the adverse currency movements of one percentage point of sales growth, benefiting from strong demand in South Korea and India. The Americas advanced at a faster pace (+6%) when excluding U.S. HPV test revenues. QuantIFERON-TB test and improved conditions among Life Science customers. Europe advanced 4% reflecting adverse currency movements of approximately four percentage points offset by market expansion in markets such as France, the United Kingdom, Turkey and the Middle East. Brazil and India and Brazil were key contributors (+13% / 16% of sales) when excluding adverse currency movements of one percentage points.

Customer classes: An overview of performance in QIAGEN's four customer classes:
Net sales by product category and customer class

	Full-year 2016		
	Sales	%	% of
	(In \$ m) changesales		
Consumables and related revenues	\$1,166	5%	87%
Instruments	\$172	3%	13%
Molecular Diagnostics ⁽¹⁾	\$663	4%	50%
Of which: U.S. HPV test solutions	\$33	-29%	3%
MDx excluding U.S. HPV ⁽¹⁾	\$630	7%	47%
Applied Testing	\$120	5%	9%
Pharma	\$262	5%	19%
Academia	\$293	4%	22%

(1) Includes companion diagnostic co-development revenues (\$32 million, -8%)

Molecular Diagnostics, which contributed approximately 50% of net sales, expanded 4% in 2016, offsetting the adverse currency movements of three percentage points of sales growth. The core portfolio drove growth before adverse currency impacts and the ongoing decline in sales of U.S. HPV test products. Consumables used on the QIASymphony automation platform also grew at a solid pace and exceeded its goal for new QIASymphony placements.

Applied Testing represented approximately 9% of net sales, grew 5% in 2016 compared to 2015, offsetting adverse currency movements resulting in a loss of two percentage points of sales growth. Before negative currency movements, we advanced on high-single digit growth rates for instruments while consumables and related revenues grew at a slower rate.

Pharma experienced 5% sales growth in 2016 compared to 2015 with adverse currency percentage points of sales growth and provided 19% of net sales. Pharma grew on high consumables and related revenues while instruments maintained a mid-single digit rate negative currency impacts.

Academia represented approximately 22% of net sales and rose 4% in 2016 compared to 2015 with adverse currency movements. Before negative currency impacts, Academia advanced on a mid-single digit rate consumables and related revenues while all regions showed gains in this customer class.

Gross Profit

Gross profit was \$844.7 million, or 63% of net sales, in 2016, compared with \$826.7 million in 2015. Generally, our consumables and related products have a higher gross margin than our services and arrangements. Fluctuations in the sales levels of these products and services can result in variations between periods. Gross profit in 2016 was impacted by lower gross margins for consumables. Gross profit in 2016 was impacted by impairment charges of \$12.0 million recognized in 2016 related to restructuring. Additionally, during 2016, we incurred incremental costs in connection with the manufacturing of certain products to our European production site in Hilden, Germany, and the in-sourcing of the manufacturing of our QuantiFERON product to our U.S. production site. Amortization expense related to developed technology and patent and license rights, and other intangible combinations, is included in cost of sales. The amortization expense on acquisition-related intangibles decreased slightly to \$80.1 million in 2016 from \$84.5 million in 2015. Acquisition-related intangibles are expected to increase in the future should we make further acquisitions.

Research and Development

Research and development expenses increased by 20% to \$176.1 million (13% of net sales) in 2016 from \$146.7 million (11% of net sales) in 2015. The increase in 2016 includes \$26.4 million in restructuring activities, including personnel related and asset impairment costs. During 2016, we continued to invest in NGS System and continue to invest in research and development as we develop a range of products to address new applications and market segments. We also plan to introduce additional products as part of our longer-term expansion of the NGS content menu beyond oncology. The increase in research and development in 2016 also reflects our ongoing investments in NGS and our life sciences portfolio, as well as the late 2015 and Exiqon in 2016 together with regulatory activity in support of new products. As we develop and acquire new products and technologies, we expect to incur additional expenses for the employees engaged in research and development. Additionally, research and development expenses may increase as a result of seeking regulatory approvals, including U.S. FDA Pre-Market Approval (PMA) and EU CE approval of certain assays or instruments. Further, business combinations, acquisitions, and other technologies, may increase our research and development costs in the future. We have and expect to continue to make investments in our research and development efforts.

Sales and Marketing

Sales and marketing expenses increased 12% to \$401.4 million (30% of net sales) in 2016 from \$357.5 million (27% of net sales) in 2015. The increase in 2016 includes \$24.9 million in restructuring costs related to sales and marketing, including personnel related and advisory costs. Additionally, sales and marketing expenses increased in 2016 as compared to 2015 to support commercialization of growth drivers and new products. Sales and marketing expenses are primarily associated with personnel, commissions, advertising, travel, and logistics expenses, and other promotional expenses. In 2016, we continued investing in sales and marketing activities related to our sales force, in particular the addition of sales representatives for life sciences markets. We have also continued our e-commerce initiatives as well as investments in new markets such as the Middle East and Asia. These incremental investments more than offset the impact of lower compensation costs following a reassessment of stock units with performance conditions. Sales and marketing costs will increase along with new product introductions and growth drivers, but are expected to decrease as a percentage of sales. Further, looking forward we expect a lower cost base for sales and marketing activities as part of the restructuring project initiated in the fourth quarter of 2016. General and Administrative, Integration and Other

General and administrative, integration and other costs increased by 27% to \$129.2 million in 2016 from \$102.1 million (8% of net sales) in 2015. In 2016, acquisition and integration costs totaled \$129.2 million related to the transaction costs incurred in connection with the acquisition of LCI and integration.

costs totaled \$13.9 million, of which \$7.5 million related to the transaction costs incurred by MO BIO Laboratories. Acquisition and integration related costs in 2016 are net of gains recorded in general and administrative costs from the reduction in the fair value of unmet milestones. Additionally, the increase in 2016 includes \$4.9 million in restructuring activities, including severance and retention costs. The increase in general and administrative costs also reflects an increase of \$5.1 million related to share-based compensation of lower share based compensation costs following a reassessment of stock units with respect to integrate the acquired companies and pursue other opportunities to gain efficiencies, versus additional business integration in 2017. Over time, we believe the integration activities will result in efficiency in operations.

Acquisition-Related Intangible Amortization

Amortization expense related to developed technology and patent and license rights are included in cost of sales. Amortization of trademarks and customer base acquired in a business combination is recorded as an operating expense under the caption "acquisition-related intangible amortization." Amortization of intangibles not acquired in a business combination are recorded within cost of sales, research and development, and other line items based on the use of the asset.

During 2016, amortization expense on acquisition-related intangibles within operating expenses was \$38.7 million compared to \$38.7 million in 2015. We expect acquisition-related intangible amortization to increase in future acquisitions.

Other Income (Expense)

Total other expense, net was \$41.9 million in 2016, compared to \$43.2 million in 2015, primarily as the result of interest expense and other expense, partially offset by interest income.

For the year ended December 31, 2016, interest income increased to \$6.8 million from \$5.5 million in 2015. Interest income includes interest earned on cash, cash equivalents and short term investments, income from foreign currency derivatives as discussed in Note 13 in the accompanying consolidated financial statements, and interest on the interest portion of operating lease transactions.

Interest expense increased to \$39.0 million in 2016, compared to \$37.4 million in 2015, primarily due to debt, discussed in Note 15 in the accompanying consolidated financial statements.

Other expense, net was \$9.7 million for the year ended December 31, 2016, and included a net loss in connection with the impairment of an equity-method investment and a \$2.6 million charge related to the restructuring program initiated late in 2016. Included in \$10.6 million of other expense, net in 2015 was the repurchase of the \$130.5 million loan payable to and warrant agreement with QIA. For the year ended December 31, 2016, we recorded net losses on foreign currency of less than \$0.1 million, primarily due to foreign currency rate fluctuations.

Provision for Income Taxes

Our effective tax rates differ from The Netherlands statutory tax rate of 25% due in part to the fact that we are exposed to effective tax rates ranging from zero to more than 40%. In 2016 and 2015, our effective tax rates were 1.2% and 4.7%, respectively. The comparison is impacted by pre-tax book income which was \$136.3 million in 2016 compared to \$136.3 million in 2015. Pretax book income was lower in 2016 primarily due to the restructuring program initiated in the fourth quarter of 2016. Fluctuations in pre-tax book income among our operating subsidiaries can lead to fluctuations of the effective tax rate. In 2016 and 2015, tax expense on foreign operations was favorably impacted by partial tax exemptions on foreign income primarily derived from operations in Germany, the Netherlands, and Switzerland. These foreign tax benefits are due to a combination of favorable tax rates and exemptions in these jurisdictions. In particular, we have pre-tax income in Germany with respect to tax on intercompany foreign royalty income. Further, we have intercompany financing income in Ireland and Ireland in which the intercompany income is partially exempt. See Note 16 to the consolidated financial statements for a full reconciliation of the effective tax rate to The Netherlands statutory rate.

In future periods, our effective tax rate may fluctuate from similar or other factors as their application could adversely affect our results of operations or financial flexibility.
Year Ended December 31, 2015, Compared to 2014

Net Sales

In 2015, net sales decreased 5% to \$1.28 billion compared to \$1.34 billion in 2014, due to adverse currency movements. Excluding the effect of adverse currency movements, net sales increased 3% to \$1.34 billion. Contributions from consumables and related revenues (+3% / 87% of sales) and instruments (+2% / 13% of sales) drove the growth. Excluding the effect of adverse currency movements, about two percentage points of net sales growth were due to acquisitions of the Enzymatics NGS technology and consumables portfolio (acquired in April 2014) and the bioinformatics business (acquired in April 2014), while sales in the rest of the business declined. Late in the fourth quarter of 2015, we completed the acquisition of MO BIO Laboratories, a provider of sequencing technologies for metagenomics and microbiome analysis, but this had a negligible contribution to net sales. Excluding the expected impact of sharply lower U.S. sales of HPV tests, which created about two percentage points of headwind, as well as the effect of adverse currency movements, net sales rose 10% to \$1.34 billion. Geographic regions: Excluding the loss of 15 percentage points of sales growth due to adverse currency movements, the Europe / Middle East / Africa region led the geographic performance, benefiting from strong sales as improving performances in other countries. The Americas advanced at a faster pace than Europe, driven by sales and when excluding 3 percentage points of adverse currency movements. Asia-Pacific sales were flat, driven by China and ongoing robust growth in South Korea while Japan sales declined on macroeconomic factors. Excluding 10 percentage points of adverse currency movements, Turkey, China, South Korea and India led growth in emerging markets (+8% / 15% of sales) against declining sales in Mexico and Russia when excluding 10 percentage points.

Customer classes: An overview of performance in QIAGEN's four customer classes: Molecular Diagnostics, which contributed approximately 50% of net sales, declined 7% in 2015, excluding adverse currency movements of eight percentage points of sales growth in 2015. The core portfolio declined 10% in 2015, before adverse currency impacts and the ongoing decline in sales of U.S. HPV test products. Consumables used on the QIASymphony automation platform also grew at a solid pace, but revenues were negatively impacted by agreements. Personalized Healthcare sales also grew at a higher-single-digit rate for the year. Applied Testing represented approximately 9% of net sales, declined 1% in 2015 compared to 2014, excluding adverse currency movements resulting in a loss of eight percentage points of sales growth. Before negative currency impacts, Applied maintained a higher-single-digit growth pace for consumables and related revenues due to new product launches at a lower-single-digit rate in the fourth quarter and for the year. All regions showed gains in sales, except for human ID / forensics.

Pharma sales growth remained unchanged compared to 2014 and provided approximately 1% of net sales, excluding adverse currency movements resulting in a loss of six percentage points of sales growth. Before adverse currency impacts, Pharma advanced on mid-single-digit growth for both instruments and consumables and related revenues. The Europe / Middle East / Africa region and the Americas offset lower sales in Asia-Pacific / Japan. Academia represented approximately 22% of net sales and declined 4% in 2015 compared to 2014, excluding adverse currency movements resulting in a loss of ten percentage points of sales growth. Academia advanced on mid-single-digit rates for instruments while consumables and related revenues grew at a mid-single-digit rate before negative currency impacts. The Americas led growth among all regions and benefited from strong funding trends.

Gross Profit

Gross profit was \$826.7 million, or 65% of net sales, in 2015, compared with \$865.2 million in 2014. Adverse currency movements negatively impacted gross profit in 2015 by \$71.9 million. Consumables and related products have a higher gross margin than our instrumentation products and services. Sales levels of these products and services can result in fluctuations in gross margin because of the expense related to developed technology and patent and license rights, which have been capitalized and are included in cost of sales. Gross profit in 2014 was impacted by charges of \$26.4 million in connection with internal restructuring efforts as well as those related to acquisitions. In 2015, we recorded \$1.1 million in impairments and \$2.2 million in contract termination costs as discussed in our consolidated financial statements.

Cost of sales includes amortization expense related to developed technology and patents from business combinations. The amortization expense on acquisition-related intangibles was \$84.5 million in 2015 from \$81.7 million in 2014. Acquisition-related intangible amortization should we make further acquisitions.

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ed by 10% to \$146.8 million (11% of net income). The increase in research and development expenses for 2015, we introduced our GeneReader NGS platform, incorporating a range of upgrades and enhancements, including additional cancer-related gene panels, with various business combinations, along with the acquisition of new talent in the future. As we continue to discover new clinical expenses related to facilities, licenses and development costs are expected to increase. We received FDA Approval (PMA), U.S. FDA 510(k) clearance for our platform, a commitment to innovation and expect to continue to invest in research and development.

to \$359.6 million (28% of net sales) in 2016, compared to \$33.5 million of favorable currency exchange and other non-recurring marketing activities. Sales and marketing expenses include trade shows, publications, freight and logistics costs (2016 and 2017) and other promotional expenses. Selling expenses related to our sales force and e-commerce activities, including compensation costs following a reassessment of our sales force, are expected to increase in 2017. Selling costs will increase along with new product

Other

Other costs decreased by 19% to \$102.1 million. The comparison was affected by \$8.3 million of savings from restructuring, including severance and retention costs as discussed above, and a decrease in general and administrative, business development and exchange impact. Additionally, share based compensation expense decreased by 10% of stock units with performance criteria. Selling, general and administrative expense by \$7.5 million and \$2.0 million, respectively, for 2014 and 2013, from laboratories, and the 2014 acquisitions of Enzo and Zymogen. Finally, we have other opportunities to gain efficiencies, and over time, we believe the integration activities will continue to drive cost savings.

technology and patent and license rights and trademarks and customer base acquired in a combination-related intangible amortization.” And recorded within cost of sales, research and

acquisition-related intangibles within operating assets and
 net acquisition-related intangible amortization expense

compared to \$42.3 million in 2014. Total cash and cash equivalents were partially offset by interest income and impacts from the sale of the company. As of December 31, 2015, is a \$7.6 million cash and cash equivalents. In January 2015, the company entered into a loan agreement with QIAGEN Finance. For more information on the \$300 million loan payable to and from QIAGEN Finance, see Note 10.

Euro Finance is included. Both transactions are discussed more fully in Note 15 to the financial statements. For the year ended December 31, 2015, interest income increased to \$4.8 million from \$3.2 million in 2014. Interest income includes interest earned on cash, cash equivalents and short term investments, income from foreign exchange derivatives entered into in 2015 as discussed in Note 13 and other components included in the consolidated statement of lease transactions.

Interest expense decreased to \$37.4 million in 2015, compared to \$39.3 million in 2014. Our debt, discussed in Note 15 in the accompanying notes to the consolidated financial statements, is primarily as a result of the repayments of the 2006 Notes as discussed in Note 15 to the consolidated financial statements. For the year ended December 31, 2015, we recorded net losses on foreign currency of \$1.9 million in 2014. These gains and losses are due to foreign currency rate fluctuations.

Provision for Income Taxes

Our effective tax rates differ from The Netherlands statutory tax rate of 25% due in part to the fact that we are exposed to effective tax rates ranging from zero to more than 40%. Fluctuations in the effective tax rate among our operating subsidiaries can lead to fluctuations of the effective tax rate in the consolidated financial statements. In 2015 and 2014, our effective tax rates were 4.7% and 2.1%, respectively. In 2014, The Netherlands' effective tax rate was favorably impacted by fully tax exempt income related to financing activities which could be used to offset income tax accordingly, the related income tax benefit will not impact our effective tax rate beyond 2014, tax expense on foreign operations was favorably impacted by lower income tax rates on foreign income primarily derived from operations in Germany, Singapore, Luxembourg, and other countries. These benefits are due to a combination of favorable tax laws, rules, rulings, and exemptions. In 2015, we have pre-tax income in Germany which is statutorily exempt from trade tax on interest income. Further, we have intercompany financing arrangements through Luxembourg in which the interest income is exempt. See Note 16 to the consolidated financial statements for a full reconciliation of our effective tax rate to the Netherlands statutory rate.

In future periods, our effective tax rate may fluctuate from similar or other factors as discussed above. The application of these factors could adversely affect our results of operations or financial flexibility.

Foreign Currencies

QIAGEN N.V.'s reporting currency is the U.S. dollar, and most of our subsidiaries' functional currencies are the currencies of the countries in which they are headquartered. All amounts in the financial statements denominated in currencies of the countries in which they are headquartered and whose functional currency is not the U.S. dollar are translated into U.S. dollar equivalents at the following rates: (1) assets and liabilities at period-end rates, (2) income statement accounts at average exchange rates, and (3) components of shareholders' equity at historical rates. Translation gains or losses are recorded in other comprehensive income. Transaction gains and losses are reflected in net income. The net (loss) gain on foreign currency transactions was less than \$(0.1) million and in 2015 and 2014 was \$(0.5) million, and \$1.9 million, respectively, net of interest expense, net.

Derivatives and Hedging. In the ordinary course of business, we use derivative instruments, including forward contracts and/or options, to manage potential losses from foreign currency exposures and variable interest rate exposures. The primary purpose of such derivative instruments is to minimize the risks and/or costs associated with global operations. We do not utilize derivative or other financial instruments for trading or speculative purposes. Derivatives are recorded as either assets or liabilities on the balance sheet, measure those instruments at fair value, and are recognized in earnings in the period of change, unless the derivative qualifies as an effective hedge. In determining fair value, we consider both the counterparty credit risk and our own credit risk. If our derivatives are not covered by collateral agreements with the respective counterparties, we estimate our own credit rating by benchmarking the price of our outstanding debt to the price of debt issued from rated companies. Using the estimated rating, we quantify our credit risk by reference to the corresponding rating.

Foreign Currency Derivatives. As a globally active enterprise, we are subject to risks from fluctuations in foreign currencies in our ordinary operations. This includes foreign currency-denominated receivables and payables, balance sheet positions including intercompany items. We manage our balance sheet foreign currency exposures with foreign exchange options and cross-currency swaps.

Interest Rate Derivatives. We use interest rate derivative contracts on certain borrowing arrangements to manage interest rate exposures. We have entered into interest rate swaps in which we agree to exchange, at specified intervals, between fixed and floating interest amounts calculated by reference to an agreed-upon benchmark rate. We also make use of economic hedges. Further details of our derivative and hedging activities are provided in the accompanying consolidated financial statements.

Liquidity and Capital Resources

To date, we have funded our business primarily through internally generated funds, debt, and equity. Our primary use of cash has been to support continuing operations and our investment expenditure requirements and acquisitions. As of December 31, 2016 and 2015, we had \$300.0 million and \$290.0 million, respectively. We also had short-term investments of \$93.0 million and cash

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equivalents are primarily held in U.S. dollars and euros, other than those cash balances held by our subsidiaries to meet local working capital needs. At December 31, 2016, cash and cash equivalents increased \$10.6 million from December 31, 2015, primarily as a result of cash provided by operating activities, partially offset by cash used in financing activities of \$10.6 million and cash used in investing activities of \$10.6 million. At December 31, 2016 and 2015, we had working capital of \$729.1 million and \$693.0 million, respectively. Operating Activities. For the years ended December 31, 2016 and 2015, we generated net income of \$341.6 million and \$317.5 million, respectively. While net income was \$80.3 million in 2016, net income included \$213.1 million of depreciation and amortization and \$44.4 million of impairment losses and other non-recurring costs, primarily asset impairment and disposal costs incurred in connection with the restructuring of our operations in the fourth quarter of 2016.

Operating cash flows include a net decrease in working capital of \$1.3 million excluding changes in cash and cash equivalents. The current period change in working capital is primarily due to increases in accounts receivable, partially offset by increased accrued liabilities and taxes payable. Because we rely heavily on credit to fund our business, a decrease in demand for our products, longer collection periods, and competitive advances of competitors would have a negative impact on our liquidity.

Investing Activities. Approximately \$179.1 million of cash was used in investing activities during 2016 compared to \$496.3 million during 2015. Investing activities during 2016 consisted principally of \$496.3 million in cash paid for investments, \$74.5 million in cash paid for purchases of property and equipment, as well as the sale of intangible assets and \$23.4 million paid for strategic investments in privately and publicly held companies. Cash provided was partially offset by \$533.8 million from the sale of short-term investments. Cash paid for the acquisition of Exiqon of \$90.5 million primarily represents the total cash paid for the acquisition of Exiqon.

Financing Activities. Approximately \$10.6 million of cash was used in financing activities during 2016 compared to \$258.6 million in 2015. Cash used during 2016 consisted primarily of cash used for debt assumed via the acquisition of Exiqon, as well as other financing activities including the issuance of common shares in connection with the acquisition and \$5.5 million for the acquisition of the remaining noncontrolling interest in Exiqon. Cash provided in 2015, was mainly due to the repayment of the long-term debt of QIAGEN Finance of \$258.6 million, "Lines of Credit and Debt." Additionally, cash used during 2015 included \$20.8 million for the acquisition of Exiqon, which was partially offset by \$10.3 million for the issuance of common shares in connection with the acquisition.

Other Factors Affecting Liquidity and Capital Resources

In October 2016, we extended the maturity of our €400 million syndicated revolving credit facility to a contractual lifetime until December 2021 of which no amounts were utilized at December 31, 2016. The facility is denominated in Euro, British pounds sterling, Swiss franc or U.S. dollar and bears interest at the rate of EURIBOR, or LIBOR in relation to any loan not in euro, and is offered with interest periods of 1, 3, 6 and 12 months. We have additional credit lines totaling €36.6 million with no expiration date as of December 31, 2016. We also have capital lease obligations, including interest, in the amount of \$1.1 billion of long-term debt, of which no amounts are current as of December 31, 2016. In March 2014, we issued \$730.0 million aggregate principal amount of Cash Convertible Notes. \$400.0 million is due in 2019 (2019 Notes) and \$300.0 million is due in 2021 (2021 Notes). The 2019 Notes and 2021 Notes, collectively as the "Cash Convertible Notes" which are discussed fully in our financial statements. Interest on the Cash Convertible Notes is payable semiannually in arrears on March 19 and September 19, 2014. The 2019 Notes will mature on March 19, 2019 and the 2021 Notes will mature on March 19, 2021 unless repurchased or converted in accordance with their terms prior to such date.

In October 2012, we completed a U.S. private placement through the issuance of new debt in the amount of \$400 million with a weighted average interest rate of 3.66% (settled on October 19, 2012) in three series: (1) \$73 million 7-year term due in 2019 (3.19%); (2) \$300 million 10-year term due in 2021 (3.90%); and (3) \$27 million 12-year term due in 2024 (3.90%).

We had notes payable, which were the long-term borrowings of the proceeds from the issuance of our unsecured, unsubordinated convertible notes, with a 1.5% coupon due in 2024 through QIAGEN Finance. The Notes were convertible into our common shares at a conversion price of \$12.6449, subject to certain

conversions of \$14.9 million of the 2004 Notes, we previously repaid \$14.5 million of the 2004 Notes in 2015, we paid \$250.9 million for the redemption of the remaining loan and repurchase of the 2004 Notes from QIAGEN Finance and recognized a loss of \$7.6 million in other expense, net.

In connection with certain acquisitions, we could be required to make additional contingent payments of up to \$27.6 million based on the achievement of certain revenue and operating results milestones. We have no contingent obligations as of December 31, 2016, 2017, \$5.1 million in 2019, and \$7.0 million, payable in any 12-month period from the date of accomplishment of certain revenue targets. Of the \$27.6 million total contingent obligations, \$8.8 million is included in accrued liabilities in the accompanying balance sheet as of December 31, 2016, of which \$5.8 million is included in accrued liabilities in the accompanying balance sheet as of December 31, 2017. In 2013, we announced a share buyback program, to purchase up to 100 million of our common shares (excluding transaction costs). We completed the share repurchase program in June 2014 having repurchased 4.4 million QIAGEN shares for a total aggregate amount of approximately \$49.1 million (excluding transaction costs) and in 2015 0.8 million QIAGEN shares for a total aggregate amount of approximately \$49.1 million (excluding transaction costs). This program expired in December 2015.

In July 2014, we announced the launch of our third \$100 million share repurchase program to repurchase up to 100 million of our common shares (excluding transaction costs). In 2014, 2.1 million QIAGEN shares were repurchased for a total aggregate amount of approximately \$49.1 million (excluding transaction costs) and in 2015 0.8 million QIAGEN shares were repurchased for a total aggregate amount of approximately \$49.1 million (excluding transaction costs). This program expired in December 2015. In January 2017, we completed a synthetic share repurchase that combined a direct cash payment and a share split. The transaction was announced in August 2016 and involved an approach used by other companies to provide returns to shareholders in a faster and more efficient manner than a traditional share repurchase. The transaction returned \$244.0 million to shareholders through the transaction, which reduced the number of shares outstanding by approximately 3.7% to 230.8 million (of which 4.95 million in treasury) as of December 31, 2016. We expect that cash from financing activities will continue to be impacted by issuances of debt and equity with our equity compensation plans and that the market performance of our stock will continue to be impacted by market conditions. Additionally, we may make future acquisitions or investments requiring cash or equity or debt financing.

Repurchased shares will be held in treasury in order to satisfy various obligations, including obligations in connection with the issuance of our Cash Convertible Notes and employee share-based compensation plans. We expect that cash from financing activities will continue to be impacted by issuances of debt and equity with our equity compensation plans and that the market performance of our stock will continue to be impacted by market conditions. Additionally, we may make future acquisitions or investments requiring cash or equity or debt financing.

We believe that funds from operations, existing cash and cash equivalents, together with proceeds from private sales of equity, and availability of financing facilities, will be sufficient to fund our operations and expansion during the coming year. However, any global economic downturn may have an adverse effect on our currently expected, and we may experience a decrease in the sales of our products, which could reduce our cash flows and generate cash. If our future cash flows from operations and other capital resources are not sufficient to meet our needs, we may be required to obtain additional debt or equity financing or to reduce our capital expenditures on acquisitions or research and development projects. If we could not obtain financing on favorable terms, or implement timely reductions in our expenditures, our business could be adversely affected.

Off-Balance Sheet Arrangements

Other than our former arrangements with QIAGEN Finance and QIAGEN Euro Finance, we have no off-balance sheet arrangements. In our consolidated financial statements, we did not use special purpose entities and do not have any off-balance sheet arrangements as of and during the years ended December 31, 2016, 2015 and 2014.

Contractual Obligations

As of December 31, 2016, our future contractual cash obligations are as follows:

Contractual Obligations (in thousands)	Payments Due by Period				
	Total	2017	2018	2019	2020
Long-term debt ⁽¹⁾	\$1,161,611	\$18,869	\$18,869	\$493,339	\$14,920
Purchase obligations	95,276	61,643	19,824	12,257	891
Operating leases	38,602	13,338	9,292	6,121	3,752
License and royalty payments ⁽²⁾	65,502	15,969	11,562	10,702	10,438
Capital lease obligations ⁽³⁾	2,719	1,114	1,534	59	12
Total contractual cash obligations	\$1,363,710	\$110,933	\$61,081	\$522,478	\$30,020

(1) Amounts include required principal, stated at the current carrying values, and interest.

(2) As of December 31, 2016, \$14.8 million and \$40.3 million are included in accrued long-term liabilities, respectively.

(3) Includes future cash payments, including interest, due under capital lease arrangements. In addition to the above and pursuant to purchase agreements for several of our recent acquisitions, we may be required to make additional contingent cash payments totaling up to \$27.6 million based on the achievement of certain operating results milestones as follows: \$15.5 million in 2017, \$5.1 million in 2019 and \$7.0 million in a 12-month period from now until 2029 based on the accomplishment of certain revenue milestones for certain products or the grant of certain patent rights. As of December 31, 2016, we have accrued contingent cash payments of which \$5.8 million is included in other long-term liabilities and \$3.0 million is included in current liabilities.

Liabilities associated with uncertain tax positions, including interest and penalties, are not included in the table above, as of December 31, 2016 and are not included in the table above, as we cannot reasonably estimate the amount that would be paid to a government agency. Ultimate settlement of these liabilities is dependent on the outcome of such as examinations by each agency and expiration of statutes of limitation for assessment.

Critical Accounting Policies, Judgments and Estimates

The preparation of our financial statements in accordance with accounting principles generally accepted in the United States requires management to make assumptions that affect the reported amounts of assets, liabilities, equity, revenues, expenses, contingencies as of the date of the financial statements, as well as the reported amount of cash flows for the reporting period. Critical accounting policies are those that require the most complex judgments and estimates as a result of the need to make estimates about the effects of matters that are inherently uncertain. If the actual events differ from management's estimates and assumptions, there could be a material effect on our financial statements. Applying our critical accounting policies, at times we used accounting estimates that could differ from what we would have reported about matters that were highly uncertain at the time the estimate was made or it is reasonably likely that a change in an accounting estimate may occur from period to period that would have a material impact on our financial statements, operations, financial position or cash flows. Our critical accounting policies are those relating to revenue recognition, share-based compensation, income taxes, investments, variable interest entities, goodwill, intangible assets, purchase price allocation and fair value measurements. We reviewed the development and application of our critical accounting policies and estimates with the Audit Committee of our Supervisory Board. **Revenue Recognition.** We recognize revenue when four basic criteria are met: (1) performance obligation exists; (2) delivery has occurred or services have been rendered; (3) the fee is fixed or determinable and is reasonably assured. Determination of criteria (3) and (4) could require management's judgment. The amount of the fee charged for services rendered and products delivered and the collectability of the fee are determined. If sales agreements contain standard terms and conditions, we do enter into agreements with customers under non-standard terms and conditions. Sometimes interpretation of the sales agreement or the nature of the arrangements is complex in determining whether there is more than one unit of account. If more than one element should be recognized for each element is subject to certain estimates or assumptions. Revenue is recognized when elements are delivered to the customer if the delivered item has value on a stand-alone basis, the value of the undelivered item is probable and substantially in our control. Revenue is allocated to the elements based on the method. Should changes in conditions cause management to determine that these criteria are not met for certain transactions, revenue recognized for any reporting period could be adversely affected. **Share-Based Compensation.** Our stock plan, the QIAGEN N.V. 2014 Stock Plan (the "Plan"), provides for stock rights, incentive stock options, as well as for non-qualified options, stock grants and restricted stock units. Performance-based stock units subject to performance periods of one-year up to three years. The achievement of performance achieved during the performance period may be subject to significant changes in the performance is completed. While we have not granted stock options since 2013, in the past we have used the Black-Scholes-Merton valuation model for estimating the fair value of our stock options. The Black-Scholes-Merton model, including Black-Scholes-Merton, require the input of highly subjective assumptions, including expected dividend yield, expected volatility, and the expected life of the award. Changes in these assumptions

materially affect the grant date fair value of an award.

Income Taxes. Calculation of our tax provision is complex due to our international operations in various jurisdictions in which we operate. Some of our deferred tax assets relate to net operating losses (NOLs) which the utilization of NOLs is not assured and is dependent on generating sufficient taxable income in the future. It is more likely than not that we will generate sufficient taxable income to utilize such assets. We are evaluating the

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NOLs related to our newer subsidiaries requires us to make estimates that we believe uncertain given that we do not have direct experience with these subsidiaries or their subject to significant changes from period to period as we gain that experience. To the extent our taxable income are insufficient to utilize all available NOLs, a valuation allowance will be recorded for income taxes in the period the determination is made, and the deferred tax assets will be reduced. This could be material. In the event that actual circumstances differ from management's estimates, our estimates are adjusted in the future, any changes to the valuation allowance could materially impact our position and results of operations.

Investments. We have equity investments accounted for under the cost method. We periodically assess these investments for permanent impairment, considering factors such as the most recent financial statements, and forecasts and expectations of the investee. The valuation of nonmarketable equity investments in biotech companies is inherently subjective, and based on management's assumptions, it could require a write-down of the investment that could materially impact our position and results of operations.

In addition, generally accepted accounting principles require different methods of accounting for investments on the level of influence that we exert. Assessing the level of influence involves subjective judgments and assumptions with respect to its level of influence differ in future periods and we therefore may change our investments under a method other than the cost method, it could have a material impact on our financial statements. **Variable Interest Entities.** We have made strategic investments in certain companies that are not consolidated in the Consolidated Financial Statements, some of which are variable interest entities. For a company to consolidate a variable interest entity in which it holds a variable interest interest, it must be a beneficiary of that entity even if the company does not have a majority of voting interest. A variable interest entity is generally defined as an entity with insufficient equity to finance its activities or where the entity's cash flows and rewards of ownership. Assessing the requirements of ASC Topic 810 involves subjective judgments and assumptions with respect to the criteria differ in future periods, and we therefore have may change our investments under a different method, it could have a material impact on our financial statements.

Goodwill and Other Intangible Assets. We assess goodwill for impairment at least annually or more frequently if possible impairment and immediately upon an indicator of possible impairment. Goodwill impairment is determined if the carrying value of our reporting unit is more than the fair value. Due to the subjective nature of our judgments and assumptions relating to the valuation of reporting units and the uncertainty of factors affecting these valuations, both the precision and reliability of the resulting estimates of fair value. If additional information becomes known, we may change our estimates.

In the fourth quarter of 2016, we performed our annual impairment assessment of goodwill (see Note 3 to 2016). We performed our goodwill impairment testing on a single reporting unit basis (see Note 3 to 2016). In testing for potential impairment, we have the option to first assess qualitative factors to determine if it is more likely than not that the fair value of our single reporting operating unit is less than the carrying amount. If we determine that it is more likely than not that the fair value is less than the carrying amount, or if we opt not to perform the qualitative assessment, the two-step goodwill impairment test will be performed. For 2016, we measured the fair value of our single reporting unit based upon discounted future operating cash flows using a discount rate reflecting our weighted average cost of capital. Differences in assumptions used in projecting future operating cash flows and cost of capital could have a material impact on the determination of impairment amounts. In estimating future cash flows, we used historical data and assumptions were based on recent sales data for existing products, planned timing of new product launches, and customer commitments related to new and existing products. These budgets also include assumptions about sales volumes and pricing. Based on the sensitivity analysis performed, we determined that if our projected future cash flows were too high by 10%, there would still be no impact on the results of our goodwill impairment test. We concluded that no impairment existed at October 1, 2016 or through December 31, 2016.

Purchase Price Allocation. The purchase price allocation for acquisitions requires extensive use of subjective judgments to allocate the purchase price to the identifiable tangible and intangible assets, including research and development, and liabilities assumed based on their respective fair value.

contingent consideration as part of the purchase price. Contingent consideration is accounted for at the acquisition date with subsequent changes to the fair value being recognized in earnings. Whether an acquired entity is considered to be a business or a set of net assets, because only be allocated to goodwill in a business combination.

We have made several acquisitions in recent years. The purchase prices for the acquisitions are based on the fair value of the intangible assets acquired and liabilities assumed based on their estimated fair values and

independent third-party valuation firm to assist us in determining the estimated fair value of development and identifiable intangible assets. Such a valuation requires significant effort, but not limited to determining the timing and estimated costs to complete the in-process development, obtaining approvals, estimating future cash flows, and developing appropriate discount rates. Where contingent consideration and assets acquired and liabilities assumed are based on reasonable estimates, the value estimates for the purchase price allocations may change during the allowable measurement period, one year from the acquisition dates, if additional information becomes available.

Fair Value Measurements. We have categorized our assets and liabilities that are measured at fair value based on the priority of the inputs to the valuation techniques, in a three-level fair value hierarchy: Level 1 - using quoted prices in active markets for identical assets or liabilities; Level 2 - using observable inputs other than quoted prices; and Level 3 - using unobservable inputs. We primarily apply the market approach for recurring fair value measurements, using observable inputs and minimize our use of unobservable inputs. We utilize the mid-price method for valuing the majority of our assets and liabilities measured and reported at fair value. We make assumptions in valuing assets and liabilities, including assumptions about risk and the valuation technique.

Certain of our derivative instruments, which are classified in Level 2 of the fair value hierarchy, are valued using industry-standard models that consider various inputs, including time value, volatility, and contractual prices for the underlying instruments, as well as other relevant economic inputs. Where the inputs are observable in the marketplace throughout the full term of the instrument, cash flows are supported by observable prices at which transactions are executed in the marketplace. Certain of our acquisitions involve contingent consideration, the payment of which is based on the occurrence of certain events. Contingent consideration is classified in Level 3 of the fair value hierarchy and is measured at a cost of the acquisition. After the acquisition, the contingent consideration liability is measured at fair value. The fair value of contingent consideration is measured predominantly on unobservable inputs, including the likelihood of achieving specified milestone criteria, projections of future financial performance, and the assumed weightings applied to potential scenarios in deriving a probability weighted estimate. We make assumptions in developing these estimates and assumptions both at the acquisition date and in subsequent periods, based on management's estimates, or to the extent these estimates are adjusted in the future if events or circumstances could be affected in the period of any change.

For other fair value measurements, we generally use an income approach to measure fair value based on an observable price for an identical or similar asset or liability. This approach utilizes management's best estimates of expectations of projected cash flows, and discounts the expected cash flows using a cost of capital rate.

The above listing is not intended to be a comprehensive list of all our accounting policies. The treatment of a particular transaction is specifically dictated by generally accepted accounting principles, with limited or no need for management's judgment. There are also areas in which management's judgment and available alternatives may or may not produce a materially different result. See our audit committee report and notes thereto in Item 18 of this Annual Report, containing a description of accounting policies and required by generally accepted accounting principles in the United States.

Recent Authoritative Pronouncements

For information on recent accounting pronouncements impacting our business see Note 1 to our Financial Statements included in Item 18.

Item 6. Directors, Senior Management and Employees

Managing Directors and Supervisory Directors are appointed annually for the period ending at the Annual General Meeting of our shareholders up to and including the date of the Annual General Meeting of the following year.

Our Supervisory Directors and Managing Directors for the year ended December 31, 2017, are as follows:

Managing Directors:

Name	Age	Position
Peer M. Schatz	51	Managing Director, Chief Executive Officer
Roland Sackers	48	Managing Director, Chief Financial Officer

Supervisory Directors:

Name ⁽¹⁾	Age	Position
Stéphane Bancel	44	Supervisory Director, Member of the Compensation Committee and Technology Committee
Dr. Metin Colpan	62	Supervisory Director, Chairman of the Science and Technology Selection and Appointment Committee
Prof. Dr. Manfred Karobath	76	Chairman of the Supervisory Board, Supervisory Director, Chairman of the Selection and Appointment Committee, Member of the Compensation Committee and Technology Committee
Prof. Dr. Ross L. Levine	45	Supervisory Director and Member of the Science and Technology Selection and Appointment Committee
Prof. Dr. Elaine Mardis	54	Supervisory Director and Member of the Science and Technology Selection and Appointment Committee
Lawrence A. Rosen	59	Supervisory Director and Chairman of the Audit Committee
Elizabeth E. Tallett	67	Supervisory Director, Chairwoman of the Compensation Committee and Member of the Selection and Appointment Committee

(1) Dr. Werner Brandt was a member of the Supervisory Board since 2007 and did not attend the Company's Annual General Meeting in June 2016.

The following is a brief summary of the background of each of the Supervisory Directors. References to "QIAGEN" and the "Company" in relation to periods prior to April 29, 2016, refer to the Company and its consolidated subsidiaries:

Managing Directors

Peer M. Schatz, 51, joined QIAGEN in 1993, when the Company had just 30 employees and a revenue of less than \$1 million, and has been Chief Executive Officer since January 1, 2004. He was Chief Financial Officer from 2003 and became a member of the Managing Board in 1998. Mr. Schatz was previously a member of a private buyout group in Switzerland, worked in finance and systems positions in Sandoz, Ltd., and participated in the founding of start-up companies in the computer and software trading industry in the United States. Mr. Schatz graduated from the University of St. Gallen, Switzerland, with a Master of Business Administration (M.B.A.) in Finance from the University of Chicago Graduate School of Business. He is a member of the German Corporate Governance Commission from 2002 to 2012. He is a board member of Management GmbH. He is a board member of AdvaMedDx, an advocacy dedicated to the medical device industry in the United States and Europe, and ALDA (the Analytical, Life Science and Diagnostic Association) association of developers and suppliers in these fields.

Roland Sackers, 48, joined the Company in 1999 as Vice President Finance and has been a member of the Managing Board since 2004. In 2006, Mr. Sackers became a member of the Managing Board. Between 1995 and 2004, Mr. Sackers was a member of the Arthur Andersen Wirtschaftsprüfungsgesellschaft Steuerberatungsgesellschaft. Mr. Sackers obtained a Business Administration (Diplom-Kaufmann) from University of Münster, Germany. He is a member of the Supervisory Board and Audit Committee of IBS AG and a former member of the board of directors of Biotechnologies, Inc. Mr. Sackers is a board member of the industry association BIOINT. He is a non-executive director and chair of the audit committee of Immunodiagnostic Systems AG, a producer of immunological tests for research and diagnostic applications publicly listed on the Frankfurt Stock Exchange.

Supervisory Directors

Stéphane Bancel, 44, joined the Company's Supervisory Board as well as the Comper the Audit Committee and Science and Technology Committee in 2014. He is Chief E Therapeutics, Inc., a clinical-stage biotechnology company based in Cambridge, Mas drug development programs involving messenger RNA therapeutics. Before joining M years as

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Chief Executive Officer of the French diagnostics company bioMérieux SA. Prior to joining Eli Lilly, Dr. Colpan was Executive Director of Global Manufacturing Strategy and Operations at Eli Lilly in Belgium and Executive Director of Global Manufacturing Strategy and Operations at Eli Lilly in Indianapolis, Indiana, after having started at Lilly in Great Britain. Before joining Eli Lilly, Dr. Colpan was Asia-Pacific Sales and Marketing Director for bioMérieux while based in Tokyo, Japan. Dr. Colpan holds a degree from École Centrale Paris (ECP), a Master of Science in Chemical Engineering from the University of California and an M.B.A. from Harvard Business School.

Dr. Metin Colpan, 62, is a co-founder of QIAGEN and was the Company's Chief Executive Officer from 1985 through 2003. Dr. Colpan has been a member of the Supervisory Board since 2014. Dr. Colpan has been a member of the Science and Technology Committee since 2014. He has been a member of the Supervisory Board since 2015. Dr. Colpan obtained his Ph.D. and M.S. in Organic Chemistry from the Darmstadt Institute of Technology in 1983. Prior to founding QIAGEN, Dr. Colpan was a Senior Scientist at the Institute for Biophysics at the University of Düsseldorf. Dr. Colpan has had wide experience in the separation and purification of nucleic acids in particular, and has filed many patents. Dr. Colpan has served as a Supervisory Board member of Qalovis Farmer Automatic Energy GmbH, Laer, Germany, and as a Supervisory Board member of Ingenium Pharmaceuticals AG, GenPat77 Pharmaceuticals AG, and Morphosys AG, each in Munich, Germany.

Professor Dr. Manfred Karobath, 76, has been a member of the Supervisory Board since 2014. Dr. Karobath was a member of the Science and Technology Committee in 2005. In 2016, Prof. Karobath was appointed as Chairman of the Supervisory Board. Dr. Karobath was a member of our Science and Technology Committee from 2014 to 2016 and joined the Supervisory Board in 2016. He is also the Chairman of the Selection and Appointment Committee. Prof. Dr. Karobath worked from 1980 to 1988 in the Dept. of Biochemistry of the University of Vienna and, from 1988 to 1990, he joined the Dept. of Psychiatry where he became Professor of Biological Psychiatry. In 1990, he joined the University of Basel, first in drug discovery, and later becoming Senior Vice President and head of Research. In 1998, he joined Rhone Poulenc Rorer (RPR) as President of R&D and Executive Vice President. Dr. Karobath has served on the boards of directors of RPR, Pasteur Mérieux Connought, Centeon and Rhone Poulenc. He has received several scientific awards and has published 92 scientific papers.

Professor Dr. Ross L. Levine, 45, joined the Supervisory Board and its Science and Technology Committee in 2014. Dr. Levine is a physician-scientist focused on researching and treating blood and bone marrow cancer. Dr. Levine is the Chair in Leukemia Research, the Director of the Center for Hematologic Malignancies, and the Director of the Memorial Sloan Kettering Cancer Center, as well as Professor of Medicine at Weill Cornell Medical College. Dr. Levine's research lab investigating genetics and targeted therapies in myeloid malignancies and the application of next-generation sequencing technology in the practice of medicine in hematologic cancer. Dr. Levine is currently at Massachusetts General Hospital and in hematology-oncology at the Dana-Farber Cancer Institute. Dr. Levine has certification in these specialties. He received his M.D. from the Johns Hopkins University and his undergraduate degree from Harvard College.

Professor Dr. Elaine Mardis, 54, joined the Company's Supervisory Board and its Science and Technology Committee in 2014. Dr. Mardis is the Co-Executive Director of the Institute for Genomic Medicine at the University of Cincinnati, Columbus, OH. She also is Professor of Pediatrics at the Ohio State University College of Medicine. Dr. Mardis's research interests in the application of genomic technologies to improving our understanding of disease and improving the precision of medical diagnosis, prognosis and treatment. Prof. Dr. Mardis is a F. Dunn Distinguished Professor of Medicine at Washington University School of Medicine in St. Louis. Dr. Mardis was on the faculty for 22 years. As Co-Director of the McDonnell Genome Institute, Dr. Mardis's research contributed to the Human Genome Project and has since played key roles in the International Human Genome Atlas, and the Pediatric Cancer Genome Project. Prior to joining the Washington University School of Medicine, Dr. Mardis was a senior research scientist at BioRad Laboratories in Hercules, CA. Prof. Dr. Mardis is a member of the American Association for Cancer Research, and has scientific advisory roles at the Regeneron Corporation and Interpreta LLC. She also serves the U.S. government as a scientific advisor to the Veterans Health Administration Veterans Program. Prof. Dr. Mardis received her Bachelor of Science degree in Zoology and Biochemistry in 1989, both from the University of Oklahoma.

Lawrence A. Rosen, 59, joined the Company's Supervisory Board as well as the Audit Committee's chairman since 2014. Mr. Rosen was a member of the Board of Management of Deutsche Post DHL until September 2016. Holding this position since 2009, Mr. Rosen was responsible for corporate accounting and reporting, investor relations, corporate finance, corporate insurance, and as the group's global business services. Prior to joining Deutsche Post DHL, Mr. Rosen was a member of the Board of Management of Fresenius Medical Care AG & Co. KGaA in Germany from 2003 to 2009. Prior to that, he was Treasurer for Aventis SA in Strasbourg, France. Between 1984 and 2000, Mr. Rosen was a predecessor

companies Hoechst AG and American Hoechst/Hoechst Celanese Inc. Mr. Rosen, who received a B.S. in Business Administration from the State University of New York and an M.B.A. from the University of Pennsylvania, joined the Company's Supervisory Board as well as the Audit Committee in 2011 and since 2016 has served as Chairwoman of the Compensation Committee. Ms. Tallett, 67, joined the Company's Supervisory Board as well as the Audit Committee in 2011 and since 2016 has served as Chairwoman of the Compensation Committee. Ms. Tallett is a partner of Hunter Partners, LLC, a management company for early to mid-stage pharmaceutical companies, from 2002 until February 2015. Ms. Tallett continues to consult with early stage pharmaceutical companies. Her senior management experience includes President and CEO of Transcell Technologies, Inc., a pharmaceuticals company, member of the Parke-Davis Executive Committee, and Director of Vical, Inc., a pharmaceuticals company. Ms. Tallett graduated from Nottingham University, England, with honors in mathematics and economics. She is a member of the board of directors of Pfizer Inc. (where she is currently the Lead Director), Anthem, Inc. and Meredith Corp. She is a former director of Varian Inc., Varian Semiconductor Equipment Associates, Inc., Coventry Health Care, Inc. and a founding board member of the Biotechnology Council of New Jersey and Pennsylvania.

Dr. Werner Brandt, 63, joined the Company's Supervisory Board in 2007 and was Chairman of the Board until June 2016. He was also Chairman of the Selection and Appointment Committee, and Chairman of the Audit Committee. Dr. Brandt was a member of the Executive Board of SAP AG from 2001 until his retirement from SAP in 2014. For some years from 2010 onwards, he was the Human Resources Director. From 1999 to 2001, he was a member of the Executive Board and Chairman of Fresenius Medical Care AG, a German-American healthcare company, where he also served as Chairman. From 1992 to 1999, Dr. Brandt was a member of the Managing Board of Baxter Deutschland GmbH, European Operations. Dr. Brandt began his career in 1981 at the former Price Waterhouse Coopers (PricewaterhouseCoopers) in Frankfurt. Dr. Brandt completed his doctorate in business administration at the University of Darmstadt, Germany in 1991, after studying business administration at the University of Darmstadt, Germany from 1976 to 1981. During his time on the Supervisory Board, Dr. Brandt was a member of the Supervisory Board of ProSiebenSat.1 Media AG, a member of the Supervisory Board of the Supervisory Board of RWE AG and a member of the Supervisory Board of OSRAM AG (all of the Audit Committee). Dr. Werner Brandt did not stand for re-election at the General Meeting in 2016.

Compensation of Managing Board Members and Supervisory Directors

Remuneration policy

The objective of our remuneration policy is to attract and retain the talented, highly qualified and skilled individuals, who enable QIAGEN to achieve its short and long-term strategic goals. Our remuneration policy aligns remuneration with individual performance, corporate performance, growth and long-term value creation in the context of QIAGEN's social responsibility. The remuneration policy and overall remuneration levels are benchmarked regularly, taking into account the company and key markets in which QIAGEN operates, to ensure overall competitiveness. QIAGEN conducts compensation benchmarking surveys that provide information on the level, as well as the structure, of remuneration awarded by various companies and industries for a broad range of positions around the world. The group are selected on the basis of market capitalization, competitors for talent, similar business models and operating in similar industries.

The performance of the Managing Board members is measured annually against a set of key performance indicators. The remuneration of the Managing Board members is linked to the achievement of QIAGEN's strategic and financial goals. The remuneration is linked to performance, a significant proportion of the remuneration package is based on the performance of the individual and the company. These goals are set at ambitious levels and are linked to performance, with a focus on achieving both long-term strategic initiatives and short-term operational planning. Performance metrics used for these goals include the achievement of key performance indicators. The remuneration package of the Managing Board members consists of a combination of fixed and variable components. The cash award and several elements of long term incentives (together, 'total direct compensation') are based on the performance of the Managing Board members. The Managing Board receive a pension arrangement and other benefits that are standard for senior executives in the pharmaceutical industry.

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The total target remuneration package of the Managing Board members is appropriate which includes external and internal equity, experience, complexity of the position, so provide the members of the Managing Board a total direct compensation at market m The structure of the remuneration package for the Managing Board is designed to bal with long-term sustainable value creation while taking into account the interests of its part of the total remuneration of the Managing Board members consist of variable rem substantially from

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year to year depending on our corporate results and individual performance and may which may be subject to vesting conditions over a period of 10 years.

The remuneration policies for the Managing Board and for other senior management aligned and consistent.

Managing Board compensation

The compensation granted to the members of the Managing Board in 2016 consisted components, with the significant majority of compensation awarded in the form of QI for a long multi-year period to align management with the interests of shareholders and compensation included annual payments linked to business performance (annual bonus) incentives that were awarded based on individual performance.

In 2014, the General Meeting of Shareholders approved a new remuneration policy for that future annual regular equity-based compensation grants to members of the Managing Board performance stock units. Grants of stock options and restricted stock units which are no longer be granted on a regular basis and shall be reserved for use as special equity incentive. Stock options granted to the Managing Board members must have an exercise price that is at least the time of grant. Restricted Stock Units granted to the Managing Board members, vesting of Stock Units are subject to long-term vesting periods and contingent upon the achievement of multi-year period.

In 2013, QIAGEN issued Performance Stock Units that are directly linked with the fulfillment of the five-year business plan as well as implemented mandatory minimum holding levels of approximately 50 managers. This program is referred to as the "Commitment Program" and the these Performance Stock Units were based on three-year goals as defined within the Company's strategy covering the period from 2014 until the end of 2016. The targets for vesting were set by the Managing Board, and they consist of specific quantitative goals for net sales, earnings before interest and taxes (EBIT) and invested capital (ROIC) and QIAGEN Value Added (QVA), a steering metric that measures the company's ability to generate returns and exceed its cost of capital. Achievement of these 2013 Performance Stock Units was 20% at December 31, 2016. In 2016, a new grant of Performance Stock Units with maximum value of QIAGEN shares was made under the Commitment Program linked to achievement of the Company's 2018 including quantitative goals for net sales, EBIT, QVA and share price development. For the year ended December 31, 2016, the Managing Board members received the following compensation:

Name	Annual Compensation				Long-Term Compensation	
	Fixed Salary	Variable Cash Bonus (1)	Other (5)	Total	Defined Contribution Benefit Plan	Performance Stock Units Granted
Managing Board						
Peer M. Schatz	\$ 1,146,000	165,000	12,000	\$1,323,000	\$ 72,000	791,869
Roland Sackers	\$ 514,000	53,000	37,000	\$604,000	\$ 74,000	229,383

- (1) The Variable Cash Bonus amount does not include values which were converted to cash bonus. The Performance Stock Units Granted amount includes the number of Performance Stock Units granted to each Managing Board member at his election in lieu of the value of the cash bonus earned in 2016. These performance stock units vest over two years from the grant date. In 2016, Mr. Schatz received a grant of 27,677 performance stock units and Mr. Sackers received a grant of 8,884 performance stock units. In 2017, performance grants were achieved at 90% of the targeted vesting amount. The Performance Stock Units Granted amount includes the number of Performance Stock Units granted to each Managing Board member under the Company's Commitment Program. In 2016, Mr. Schatz received a grant of 27,677 performance stock units and Mr. Sackers received a grant of 144,809 performance stock units. In lieu of cash bonus, each Managing Board member elected to receive the value of the cash bonus in the form of Performance Stock Units. (4) which vest over two years from the grant date. In 2016, Mr. Schatz received a grant of 27,677 performance stock units and Mr. Sackers received a grant of 7,153 restricted stock units.

Amounts include, among others, car lease and reimbursed personal expenses such as occasionally reimburse our Managing Directors' personal expenses related to attendance directly related to their attendance. Amounts do not include the reimbursement of (5) incurred at the request of QIAGEN, other reimbursements or payments that in total amounts paid by the Company to tax authorities in order to avoid double-taxation on employment agreements.

Supervisory Board compensation

In early 2014, we conducted a board remuneration benchmark review of 36 peer companies in similar industries, including biotechnology, life science supplies, diagnostics and pharmaceuticals. As a result of this review, the Supervisory Board remuneration was aligned to the applicable market in the European Markets as a Dutch company as well as our U.S. focus as a NASDAQ listed company and the fact that three of the seven Supervisory Board members are residing in the United States. The Supervisory Board compensation for 2016 consists of fixed retainer compensation for the Chairman and Vice Chairman. Annual remuneration of the Supervisory Board members is as follows:

Fee payable to the Chairman of the Supervisory Board

Fee payable to the Vice Chairman of the Supervisory Board

Fee payable to each member of the Supervisory Board

Additional compensation payable to members holding the following positions:

Chairman of the Audit Committee

Chairman of the Compensation Committee

Chairman of the Selection and Appointment Committee and other board committees

Fee payable to each member of the Audit Committee

Fee payable to each member of the Compensation Committee

Fee payable to each member of the Selection and Appointment Committee and other board committees

Further, the Supervisory Board members will be reimbursed for tax consulting costs in connection with the preparation of their tax returns up to an amount of €5,000 per person per fiscal year.

Supervisory board members also receive a variable component, in the form of share-based compensation, and any agency or advisory service fees to members of the Supervisory Board.

For the year ended December 31, 2016, the Supervisory Board members received the following compensation:

Name	Fixed Remuneration	Chairman/ Vice- Chairman Committee	Committee Membership	Total ⁽²⁾	Rest of Stock
Supervisory Board					
Stéphane Bancel	\$ 57,500	—	32,000	\$89,500	10,7
Dr. Werner Brandt ⁽¹⁾	\$ 75,000	6,000	—	\$81,000	10,7
Dr. Metin Colpan	\$ 57,500	12,000	6,000	\$75,500	10,7
Prof. Dr. Manfred Karobath	\$ 120,000	15,000	14,500	\$149,500	10,7
Prof. Dr. Ross L. Levine	\$ 28,750	—	3,000	\$31,750	—
Prof. Dr. Elaine Mardis	\$ 57,500	—	6,000	\$63,500	10,7
Lawrence A. Rosen	\$ 57,500	25,000	—	\$82,500	10,7
Elizabeth E. Tallett	\$ 57,500	9,000	23,500	\$90,000	10,7

(1) Dr. Werner Brandt who was a member of the Supervisory Board since 2007 did not attend the Company's Annual General Meeting in June 2016.

(2) Supervisory Directors are reimbursed for travel costs and for any value-added tax on these reimbursements. These reimbursements are excluded from the amounts presented herein.

Committees of the Supervisory Board

The Supervisory Board has established an Audit Committee, a Compensation Committee and a Science and Technology Committee from among its members and deemed beneficial. The Supervisory Board has approved charters under which each of the charters are published on our website www.qiagen.com. The committees are comprised of

Name of Supervisory Director ⁽¹⁾	Member of Audit Committee	Member of Compensation Committee	Member of Science and Technology Committee
Stéphane Bancel			
Dr. Metin Colpan			
Prof. Dr. Manfred Karobath			(Chairman)
Prof. Dr. Ross L. Levine			
Prof. Dr. Elaine Mardis			
Lawrence A. Rosen	(Chairman)		
Elizabeth E. Tallett		(Chairwoman)	

(1) Dr. Werner Brandt served as the Chairman of the Selection and Appointment Committee.

We believe that all of our Supervisory Directors meet the independence requirements of the Dutch Governance Code (the Dutch Code). We further believe that all Supervisory Board Directors meet the independence requirements of the Marketplace Rules of the NASDAQ Stock Market. Pursuant to the NASDAQ Marketplace Rules, all Supervisory Directors must qualify as independent, as defined in the Rules.

Audit Committee

The Audit Committee currently consists of three members, Mr. Rosen (Chairman), Mr. Bancel and Dr. Metin Colpan, who meet at least quarterly. The Audit Committee members are appointed by the Supervisory Board. We believe that all members of our Audit Committee meet the independence requirements of the Securities Exchange Act of 1934, as amended, and the Marketplace Rules of the NASDAQ Stock Market. Mr. Rosen as an “audit committee financial expert” as that term is defined in the United States Securities and Exchange Commission rules adopted pursuant to the Sarbanes-Oxley Act of 2002 and as defined in the Dutch Code. The Audit Committee performs a self-evaluation of its activities on an annual basis. The Audit Committee's primary duties and responsibilities include, among other things, to act as an objective party to monitor QIAGEN's accounting and financial reporting process and internal control and compliance systems. The Audit Committee also is directly responsible for proposing to the Board, which then proposes the appointment of the external auditor to the General Meeting of Shareholders. The Audit Committee is responsible for the compensation and oversight of QIAGEN's external auditor and for overseeing the communication among the external auditor as well as the Management Board and the Internal Audit department operates under the direct responsibility of the Audit Committee. Further, the Audit Committee establish procedures to allow for the confidential and or anonymous submission by employees of QIAGEN. This includes the receipt, retention and treatment of submissions received regarding accounting or auditing matters. The Audit Committee discusses our financial accounting and reporting practices, the adequacy of our internal accounting, financial and operating controls and procedures and the effectiveness of management; considers and approves any recommendations regarding changes to our internal control and compliance reviews with management and the external auditor our quarterly earnings reports prior to their release. The Audit Committee reviews the quarterly and annual reports (reported on Forms 6-K and 20-F) to be furnished to the Securities and Exchange Commission and the Deutsche Boerse. The Audit Committee met seven times during the year ended December 31, 2011.

auditor excluding members of the Managing Board in December 2016. The Audit Co
exposures, pre-approves related-party transactions, and reviews any legal matter inclu
have a significant impact on the financial statements.

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Compensation Committee

The Compensation Committee's primary duties and responsibilities include, among other things, the preparation of a proposal for the Supervisory Board concerning the Remuneration Policy for the Managing Board for the General Meeting, the preparation of a proposal concerning the individual compensation of members of the Managing Board to be adopted by the Supervisory Board. The Compensation Committee also reviews equity-based compensation, reviews and approves the annual salaries, bonuses and other benefits. The Compensation Committee reviews general policies relating to employee compensation and benefits. The Compensation Committee reviews the implementation of the Remuneration Policy in the most recent year and provides an opinion on the future. The Compensation Committee currently consists of three members, Ms. T. Karobath and Mr. Bancel. Members are appointed by the Supervisory Board and serve for a one-year term. The Compensation Committee met seven times in 2016.

Selection and Appointment Committee

The Selection and Appointment (Nomination) Committee is primarily responsible for reviewing and recommending selection and appointment procedures for members of the Supervisory Board and Managing Board. The Committee also reviews the scope and composition of the Managing Board and the Supervisory Board, including the composition of the Board. Additionally, the Selection and Appointment Committee periodically evaluates the performance of members of the Managing Board and Supervisory Board, reporting these results to the General Meeting. The (re-)appointments of members of our Managing Board and Supervisory Board are recommended by the Selection and Appointment Committee. The members of the Selection and Appointment Committee are Professor Karobath (Chairman), Dr. Colpan and Ms. Mardis. Members are appointed by the Supervisory Board and serve for a one-year term. The Selection and Appointment Committee met four times in 2016.

Science and Technology Committee

The Science and Technology Committee is primarily responsible for reviewing and recommending the selection of projects, programs, budgets, infrastructure management and overseeing the management of the Company's portfolio and information technology platforms. The Science and Technology Committee also reviews the clarification and validation of the fundamental technical basis of the Company's business strategy. The Science and Technology Committee advises the Supervisory Board to make informed, strategic business decisions and vote on related matters. The Science and Technology Committee ensures that powerful, global, world-class science is developed, practiced and commercialized to create shareholder value. The current members of the Science and Technology Committee are Professor Karobath, Professor Levine, Mr. Bancel and Professor Mardis. Members are appointed by the Supervisory Board and serve for a term of one year. The Science and Technology Committee met four times in 2016.

Share Ownership

The following table sets forth certain information as of January 31, 2017 concerning the share ownership of our directors and officers. In preparing the following table, we have relied on information provided to us by the directors and officers.

Name and Country of Residence	Shares Beneficially Owned ⁽¹⁾	
	Number ⁽²⁾	Percent Ownership
Peer M. Schatz, Germany	2,046,821.92(3)	0.91 %
Roland Sackers, Germany	19,258.00	(4)*
Stéphane Bancel, United States	—	(5)—
Dr. Metin Colpan, Germany	3,523,427.00(6)	1.56 %
Prof. Dr. Manfred Karobath, Austria	17,986.00	(7)*
Prof. Dr. Ross L. Levine, United States	—	—
Prof. Dr. Elaine Mardis, United States	—	—
Lawrence A. Rosen, Germany	—	(8)—
Elizabeth Tallett, United States	4,854.00	(9)*

* Indicates that the person beneficially owns less than 0.5% of the Common Shares in January 31, 2017.

- The number of Common Shares outstanding as of January 31, 2017 was 2
- (1) entities named in the table have sole voting and investment power with re
beneficially owned by them and have the same voting rights as shareholde
 - Does not include Common Shares subject to options or awards held by such person
 - (2) below for information regarding options now exercisable or that could become exe
this table.
Does not include 731,158 shares issuable upon the exercise of options now exercis
 - (3) from \$15.59 to \$22.43 per share. Options expire in increments during the period be
2023. Does not include 1,195,512 shares issuable upon the release of unvested stock
within 60 days from the date of this table.
Does not include 196,121 shares issuable upon the exercise of options now exercis
 - (4) from \$15.59 to \$22.43 per share. Options expire in increments during the period be
2023. Does not include 143,644 shares issuable upon the release of unvested stock
within 60 days from the date of this table.
 - (5) Does not include 4,000 shares issuable upon the release of unvested stock awards
days from the date of this table.
Does not include 9,835 shares issuable upon the exercise of options now exercisab
 - (6) Includes 2,741,579 shares held by CC Verwaltungs GmbH, of which Dr. Colpan is
shares held by Colpan GbR. Does not include 6,716 shares issuable upon the relea
become releasable within 60 days from the date of this table.
Does not include 9,835 shares issuable upon the exercise of options now exercisab
 - (7) \$15.59 to \$22.43 per share. Options expire in increments during the period between
not include 6,716 shares issuable upon the release of unvested stock awards that co
from the date of this table.
 - (8) Does not include 4,000 shares issuable upon the release of unvested stock awards
days from the date of this table.
Does not include 1,563 shares issuable upon the exercise of options now exercisab
 - (9) share. Options expire on February 2022. Does not include 6,716 shares issuable up
awards that could become releasable within 60 days from the date of this table.

The following table sets forth the options of our officers and directors as of January 3

Name	Total Vested Options	Expiration Dates	Exercise Prices
Peer M. Schatz	731,158	2/28/2018 to 2/28/2023	\$15.59 to \$22.43
Roland Sackers	196,121	2/28/2018 to 2/28/2023	\$15.59 to \$22.43
Stéphane Bancel	—	—	—
Dr. Metin Colpan	9,835	4/25/2017 to 2/28/2022	\$15.59 to \$22.43
Prof. Dr. Manfred Karobath	9,835	4/25/2017 to 2/28/2022	\$15.59 to \$22.43
Prof. Dr. Elaine Mardis	—	—	—
Lawrence A. Rosen	—	—	—
Elizabeth E. Tallett	1,563	2/28/2022	\$15.59

Employees

As of December 31, 2016, we employed 4,684 individuals, of which 21% worked in research and development, 21% in sales, 21% in production/logistics, 7% in marketing and 10% in administration.

Region	Research & Development	Sales	Production	Marketing	Administration
Americas	197	634	261	75	93
Europe, Middle East & Africa	753	694	622	158	316
Asia Pacific & Rest of World	45	581	113	75	67
December 31, 2016	995	1,909	996	308	476

At December 31, 2015 and 2014, we employed 4,559 and 4,339 individuals, respectively. Our relations with regional labor unions and employees are good.

Stock Plans

We adopted the QIAGEN N.V. Amended and Restated 2005 Stock Plan (the 2005 Plan) for our employees and directors on June 14, 2005. The 2005 Plan expired by its terms in April 2015 and was replaced by the 2014 Plan. On June 25, 2014, our shareholders approved the QIAGEN N.V. 2014 Stock Plan (the 2014 Plan), which replaced the 2005 Plan in April 2015. An aggregate of 9.1 million Common Shares were reserved for the 2014 Plan, subject to certain antidilution adjustments. We issue Treasury Stock for awards and award releases and had approximately 17.9 million Common Shares reserved and available for the 2005 and 2014 Plans at December 31, 2016.

Pursuant to the 2014 Plan, stock rights, which include options to purchase our Common Shares, and stock-based awards, may be granted to employees and consultants of QIAGEN and its subsidiaries and Directors. Options granted pursuant to the 2014 Plan may either be incentive stock options or non-qualified stock options. Options granted pursuant to the 2014 Plan are subject to Section 422 of the United States Internal Revenue Code of 1986, as amended (the Code). Options granted to members of the Supervisory Board and the Managing Board must be incentive stock options. Generally, each of the options has a term of 10 years. The stock rights will be accelerated in the event of a Change of Control, as defined in the 2014 Plan. The Plan is administered by the Compensation Committee of the Supervisory Board, which determines the number of shares subject to the award, the length of time the award will remain outstanding, the manner and time of the award's payment, and the award and other terms and conditions of the award consistent with the Plan. The awards are subject to the approval of the Supervisory Board.

The Compensation Committee has the power, subject to Supervisory Board approval, to adopt such rules and regulations (including the adoption of "sub plans" applicable to particular awards) as it may deem necessary or appropriate. The Compensation Committee or the Supervisory Board

any

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respect, subject to Supervisory Board approval, and except that (i) no amendment that affects any participant under any option previously granted may be made without such participant's approval, and (ii) no amendment shall be effective prior to shareholder approval to the extent such approval is required for the exercise of incentive stock options or to ensure compliance with Rule 16b-3 under the United States Securities Exchange Act of 1934, as amended (the Exchange Act) at such times as any participants are subject to Section 302(a) of the Exchange Act. As of January 31, 2017, there were 1.4 million options outstanding with exercise prices ranging from \$10.00 and expiring between April 25, 2017 and October 31, 2023. The exercise price of the options is equal to the fair market value of Common Shares as of the date of grant or a premium above fair market value. Additionally, there were 0.9 million unit awards outstanding as of January 31, 2017. These awards will be released between January 31, 2024 and January 31, 2026. As of January 31, 2017, options to purchase 0.9 million Common Shares and 4.0 million units were held by the officers and directors of QIAGEN, as a group.

Item 7. Major Shareholders and Related Party Transactions

The following table sets forth certain information as of December 31, 2016, concerning the ownership of Common Shares by each holder of greater than 5% ownership. None of these holders have any different voting rights than the holders of Common Shares.

Name and Country of Residence	Shares Beneficially Owned	
	Number	Percent Ownership ⁽¹⁾
PRIMECAP Management Company, United States	19,143,036(2)	8.16 %
BlackRock, Inc., United States	19,433,223(3)	8.28 %
Franklin Resources, Inc., United States	25,705,128(4)	10.96 %

- (1) The percentage ownership was calculated based on 234,560,586 Common Shares outstanding as of December 31, 2016. Of the 19,143,036 shares attributed to PRIMECAP Management Company, it has sole dispositive power over all 19,143,036 shares. This information is based solely on the information provided to PRIMECAP Management Company with the Securities and Exchange Commission on January 11, 2017, regarding its ownership as of December 31, 2016.

- (2) Of the 19,433,223 shares attributed to BlackRock, Inc., it has sole voting power over all 19,433,223 shares. This information is based solely on the information provided to BlackRock, Inc. with the Securities and Exchange Commission on January 11, 2017, regarding its ownership as of December 31, 2016.

- (3) Of the 25,705,128 shares attributed to Franklin Resources, Inc., it shares voting power with various members of a reporting group of which it is part. This information is based solely on the information provided to Franklin Resources Inc. with the Securities and Exchange Commission on January 11, 2017, regarding its ownership as of December 31, 2016.

(4) Our common stock is traded on the NASDAQ Global Select Market in the United States and on the Segment of the Frankfurt Stock Exchange in Germany. A significant portion of our shares are held in an account of a stockbroker, therefore we generally have no way of determining who owns the shares, their location or how many shares a particular shareholder owns. As of January 31, 2017 there were 25,705,128 shares of our Common Shares.

Control of Registrant

To our knowledge, we are not directly or indirectly owned or controlled by another company or by any other natural or legal person. As of January 31, 2017, the officers and directors of QIAGEN beneficially owned 5.6 million Common Shares, or 2.48% of the then outstanding Common Shares.

Related Party Transactions

For information on related party transactions, see Note 22 of the Notes to Consolidated Financial Statements.

Item 8. Financial Information

See Item 18.

Legal Proceedings

For information on legal proceedings, see Note 19 of the Notes to Consolidated Financial Statements. While no assurances can be given regarding the outcome of proceedings described in this report, currently available, we believe that the resolution of these matters is unlikely to have a material effect on our financial position or results of future operations for QIAGEN N.V. as a whole. However, the uncertainties of litigation, should the outcomes be unfavorable, certain aspects of our results of operations and cash flows could be materially adversely affected.

Statement of Policy on Dividend Distribution

We have not paid any dividends on our Common Shares since our inception and do not intend to pay dividends on our Common Shares in the foreseeable future. We intend to retain our earnings, if any, for the growth of our business. Disclosure pursuant to Section 219 of the Iran Threat Reduction & Syria Human Rights Act of 2012 (the "Act"). We conduct limited business with certain Iranian entities which contributed \$3.1 million to our consolidated net sales in 2016. Although these activities are compliant with applicable law, the Iran Threat Reduction and Syria Human Rights Act of 2012 (the "Act") requires us to disclose this information in this report. Sales consisted of our consumables and instrumentation products. U.S. affiliates, by U.S. affiliates, are not involved in these sales activities and we have not knowingly sold products to a person or entity designated in U.S. Executive Orders No. 13224 and 13382. No business is conducted with the Government of Iran as defined in the Act. We do not believe any of our activities are prohibited by the Act or the Comprehensive Iran Sanctions, Accountability, and Divestment Act of 2011. If, however, concerned, we do not currently intend to cease our commercial operations with Iranian entities.

Item 9. The Offer and Listing

Effective July 3, 2006, our Common Shares began trading on the NASDAQ Global Select Market. Previously, since February 15, 2005, our Common Shares had been quoted on the NASDAQ National Market under the symbol QGEN. Prior to that, since June 27, 1996, our Common Shares had been quoted on the NASDAQ National Market under the symbol QGENF. The following tables set forth the annual high and low sales prices and the quarterly high and low sale prices for the last two years, and the monthly high and low sales prices for our Common Shares on the NASDAQ Global Select and NASDAQ National Market, for the periods indicated.

	High (\$)	Low (\$)
Annual:		
2012	19.41	14.05
2013	24.74	18.30
2014	25.32	19.46
2015	28.53	22.11
2016	28.84	19.94

	High (\$)	Low (\$)
Quarterly 2015:		
First Quarter	25.91	22.11
Second Quarter	25.74	23.63
Third Quarter	28.53	24.38
Fourth Quarter	28.04	23.80
Quarterly 2016:		
First Quarter	26.89	20.10
Second Quarter	24.05	19.94
Third Quarter	27.70	21.38
Fourth Quarter	28.84	23.94
Quarterly 2017:		
First Quarter (through February 28, 2017)	29.79	27.40

	High (\$)	Low (\$)
Monthly:		
September 2016	27.59	25.30
October 2016	27.74	24.28
November 2016	28.50	23.94
December 2016	28.84	26.79
January 2017	29.09	27.40
February 2017	29.79	27.93

From September 25, 1997, to December 31, 2002, our Common Shares were traded on the Frankfurt Stock Exchange under the symbol QIA and with the security code number 901626. As of January 1, 2003, our Common Shares was transferred to the Prime Standard Segment of the Frankfurt Stock Exchange. The TecDAX, an index of the 30 leading technology companies in Germany not included in the DAX, is the benchmark for our Common Shares. The following table sets forth the annual high and low sale prices for the last five years, the last two years, and the monthly high and low sale prices for the last six months of 2017.

	High (EUR)	Low (EUR)
Annual:		
2012	15.05	10.69
2013	18.15	13.67
2014	19.64	14.38
2015	26.05	18.72
2016	27.26	17.76

	High (EUR)	Low (EUR)
Quarterly 2015:		
First Quarter	24.00	18.72
Second Quarter	24.14	20.77
Third Quarter	26.05	21.19
Fourth Quarter	25.54	21.73
Quarterly 2016:		
First Quarter	24.96	17.76
Second Quarter	21.40	18.16
Third Quarter	24.77	19.27
Fourth Quarter	27.26	21.77
Quarterly 2017:		
First Quarter (through February 28, 2017)	27.77	25.53

	High (EUR)	Low (EUR)
Monthly:		
September 2016	24.51	22.11
October 2016	24.71	22.30
November 2016	26.51	21.77
December 2016	27.26	25.24
January 2017	27.67	25.53
February 2017	27.77	26.27

Item 10. Additional Information

Memorandum and Articles of Association

We are a public company with limited liability (naamloze vennootschap) incorporated in the Dutch Trade Register under file number 12036979. Set forth below is a summary of our Memorandum and Articles of Association, as lastly amended on January 24, 2017 (the Articles), and Dutch Corporate Governance Code, (the Dutch Code), contains principles of good corporate governance provisions. The Dutch Code contains the principles and concrete provisions which the company (including Managing Board members and Supervisory Board members) and stakeholders should follow. A revised Dutch Code was published on December 8, 2016 and is applicable to all companies. The company should either comply with, or if not, explain in its annual report why and to what extent it deviates from the best practice provisions of the Dutch Code. The Dutch Code has been taken into account in the preparation of this summary. This summary does not purport to be complete and is qualified in its entirety by reference to the Dutch Code.

Corporate Purpose

Our objectives include, without limitation, the performance of activities in the biotechnology sector, including incorporating, acquiring, participating in, financing, managing and having any other activities in any nature, raising and lending funds and such other acts as may be conducive to our corporate purpose.

Managing Directors

QIAGEN shall be managed by a Managing Board consisting of one or more Managing Directors and one or more members of the Supervisory Board. The Managing Directors must take into account our interests and the interests of our stakeholders (which includes but is not limited to our shareholders). Managing Directors shall be appointed or removed by the Meeting of our shareholders upon the joint meeting of the Supervisory Board and the Managing Directors, after having made a binding nomination for each vacancy. However, the General Meeting of our shareholders may, at its discretion, having made a binding nomination for each vacancy, remove or appoint a Managing Director. The nature of such a nomination by a resolution adopted by at least a two-thirds majority of the shareholders represents more than half the issued share capital. This is different from the provision

including the Delaware General Corporation Law, which give the directors of a corporation the authority to suspend or dismiss the executive officers of a corporation. Under our Articles, the General Meeting may suspend or dismiss any officer at any time. The Supervisory Board shall also at all times be entitled to suspend (but not dismiss) any officer at any time. Our Articles provide that the Supervisory Board may adopt management rules governing the duties of the Managing Board.

Furthermore, the Supervisory Board shall determine the salary, the bonus, if any, and the conditions of employment of the Managing Directors within the scope of the remuneration policy of the Managing Board has been adopted in our Annual General Meeting on June 25, 2014. Under Dutch law, in the event that there is a conflict of interest between a Managing Director and the company, that Managing Director shall not participate in the discussions and voting on that matter. In the event of a conflict of interest, such resolution shall be adopted by the Supervisory Board. If all Supervisory Directors are free of interest as well, the General Meeting will be authorized to resolve on such matter. In the event of a conflict of interest or apparent conflict of interest between the company and Managing Directors, the Supervisory Board may decide to enter into transactions under which Managing Directors would have a conflict of interest of significance to the Company and/or to the relevant Managing Director require the approval of the Supervisory Directors.

The Supervisory Board shall be responsible for supervising the policy pursued by the Managing Board in the course of affairs. Under our Articles, the Supervisory Directors are required to serve in the best interest of all stakeholders (which includes but is not limited to our shareholders) in fulfillment of their duties. The Board shall consist of such number of members as the Joint Meeting may from time to time determine, but not less than three members. The Supervisory Directors shall be appointed by the General Meeting on the basis of a binding nomination for each vacancy. If during a financial year a vacancy occurs in the Supervisory Board, the Board may appoint a Supervisory Director who will cease to hold office at the next Annual General Meeting. Under Dutch law and the Dutch Code, a Supervisory Director must excuse him or herself in the case of a conflict of interest. If Supervisory Directors have a conflict of interest, the relevant resolution shall be adopted by the General Meeting. To enter into transactions under which a Supervisory Director would have a conflict of interest of significance to QIAGEN and/or to the Supervisory Director concerned, require the approval of the General Meeting. Under Dutch law and the Dutch Code, the General Meeting determines the compensation of the Supervisory Directors on the proposal of the Compensation Committee. Any shares held by a Supervisory Director must be long-term investments.

Under our Articles, the General Meeting may suspend or dismiss a Supervisory Director at any time. Under the provisions of many American corporate statutes, including the Delaware General Corporation Law, the directors may vote to fill vacancies on the board of directors of a corporation.

Liability of Managing Directors and Supervisory Directors

Under Dutch law, as a general rule, Managing Directors and Supervisory Directors are not liable for the actions of the company. Under certain circumstances, however, they may become liable, either towards QIAGEN (internal liability) or towards third parties (external liability), although some exceptions are described below.

Liability towards QIAGEN

Failure of a Managing or Supervisory Director to perform his or her duties does not automatically result in liability. Liability is only incurred in the case of a clear, indisputable shortcoming about which no reasonable doubt can be cast. In addition, the Managing or Supervisory Director must be deemed to have acted negligently. The Managing Directors are jointly and severally liable for failure of the Managing Board. A Supervisory Director will not be held liable if he or she is determined not to have been negligent and has not been negligent in preventing its consequences. Supervisory Directors are jointly and severally liable for the actions of the Supervisory Board as a whole, but an individual Supervisory Director will not be held liable if he or she is determined not to have been responsible for the mismanagement and has not been negligent in preventing its consequences.

Liability for Misrepresentation in Annual Accounts

Managing and Supervisory Directors are also jointly and severally liable to any third party for misrepresentation in the annual accounts, management commentary or interim statements. A Managing or Supervisory Director will not be held liable if found not to be personally

Moreover, a Managing or Supervisory Director may be found to be criminally liable if he or she knowingly or recklessly publishes false annual accounts or deliberately allows the publication of such false annual accounts.

Tort Liability

Under Dutch law, there can be liability if one has committed a tort (onrechtmatige daad). However, there is no clear definition of “tort” under Dutch law, breach of a duty of care towards the company may be a tort. Therefore, a Dutch corporation may be held liable by any third party under tort law regarding tort claims. In exceptional cases, Managing Directors and Supervisory Directors may be held liable on basis of tort under Dutch common law, but it is generally difficult to hold a Managing Director liable for a tort claim. Shareholders cannot base a tort claim on any losses which derive from the tort suffered. In such cases, only we can sue the Managing or Supervisory Directors.

Criminal Liability

Under Dutch law, if a legal entity has committed a criminal offence, criminal proceedings may be brought against the entity itself as well as against those who gave order to or were in charge of the forbidden act. A Managing Director is only criminally liable if he or she played a reasonably active role in the offence.

Indemnification

Article 27 of our Articles provides that we shall indemnify every person who is or was a Director against all expenses (including attorneys’ fees) judgments, fines and amounts payable by or for the Director threatened pending or completed action, suit or proceeding as well as against expenses and reasonably incurred in connection with the defense or settlement of an action or proceeding brought in good faith and in a manner he reasonably could believe to be in or not opposed to our interests in respect of any claim, issue or matter as to which such person shall have been adjudged liable for willful misconduct in the performance of his or her duty to us.

Classes of Shares

The authorized classes of our shares consist of Common Shares, Financing Preference Shares and Preference Shares. Financing Preference Shares or Preference Shares have been issued.

Common Shares

Common Shares are issued in registered form only. Until January 24, 2017, Common Shares could be issued with or without issue of a share certificate, or Type I shares, or with issue of a share certificate, or Type II shares, or with an entry in the share register. At the discretion of the Supervisory Board, Type I shares and Type II shares will be registered in either our shareholders register with American Transfer Agent, our transfer agent and registrar in New York, or our shareholders register with B.V., Westblaak 89, NL-3012 KG Rotterdam, The Netherlands. The Type II shares will be registered with the American Transfer Agent.

On January 24, 2017 an adjustment to the capital structure of the Company took place whereby 250 million to the Company’s shareholders via a so called synthetic share repurchase. Pursuant to the Company's Articles. With the first amendment of the Articles, the par value of each Common Share was decreased to EUR 0.01. Pursuant to the second Amendment of the Articles, the Shares were consolidated on the basis of a ratio of 27 to 1. As a result thereof the total number of issued Shares were decreased and fractional Shares were created. A fractional Share represents one/twenty-seventh (1/27^e) portion of the value of an ordinary Share. Pursuant to the second amendment of the articles of association, the Company can no longer issue shares with a par value other than EUR 0.01. Pursuant to the third amendment of the articles of association, the par value per Share was decreased to EUR 0.01 (the third amendment of the Articles). A part of the value whereby the par value of Shares was decreased was used for the repurchase of Shares.

The transfer of registered shares requires that we issue a written instrument of transfer of shares (or, in the case of Type II shares as existed until January 24, 2017, the New York instrument of transfer (or, in our name)), and surrender of the share certificates, if any, to us or (in our name) to the New York Transfer Agent. Upon surrender of a share certificate for the purpose of transfer of the relevant shares, we (or, in our name) acknowledge the transfer by endorsement on the share certificate or by issuance of a new share certificate to the transferee, at the discretion of the Managing Board.

Financing Preference Shares

No Financing Preference Shares are currently issued or outstanding. If issued, Financing Preference Shares would be issued in registered form only. No share certificates are issued for Financing Preference Shares. All shares are fully paid up upon issue. The preferred dividend rights attached to Financing Preference Shares are described under "Dividends" below. We have no present plans to issue any Financing Preference Shares.

Preference Shares

No Preference Shares are currently issued or outstanding. If issued, Preference Shares will have no share certificates shall be issued for Preference Shares. Only 25% of the nominal value of the Preference Shares shall be payable upon subscription for Preference Shares. The obligatory payable part of the nominal value of each Preference Share. The Managing Board may, subject to the approval of the Supervisory Board, and up to which amount a further call must be paid on Preference Shares which have preferred dividend rights attached to Preference Shares are described under "Dividend Rights." Pursuant to our Articles, QIAGEN's Supervisory Board is entitled, if and in so far as it is not prohibited by law, to designate by our General Meeting, to resolve to issue Preference Shares in case of an acquisition of QIAGEN by (i) any person who alone or with one or more other persons, directly or indirectly, has the intent to acquire (beneficial) ownership of an equity stake which in aggregate equals 25% of the outstanding or (ii) an "adverse person" as determined by the Supervisory Board. For the purposes of this Article, a person is generally any (legal) person, alone or together with affiliates or associates, with an equity stake in QIAGEN. The Supervisory Board considers to be substantial and where the Supervisory Board is of the opinion that the person engaged in an acquisition that is intended to cause or pressure QIAGEN to enter into an agreement with a person with short-term financial gain under circumstances that would not be in the interest of QIAGEN or whose ownership is reasonably likely to cause a material adverse impact on our business. The Supervisory Board has not been designated to issue Preference Shares.

On August 2, 2004, we entered into an agreement (Option Agreement) with Stichting Activist Protection (SPAQ) which was most recently amended on June 4, 2012. Pursuant to the Option Agreement, SPAQ has the option to acquire such number of Preference Shares as are equal to the total number of Common Shares outstanding minus one in our share capital at the time of the relevant exercise of the right. SPAQ may exercise its option to acquire Preference Shares in all situations that it believes that our interest or our stakeholders are not limited to (i) receipt of a notification from the Managing Board that a takeover bid has been made, or (ii) a notification from the Managing Board that one or more activist shareholders take a position in QIAGEN, our shareholders or our other stakeholders), provided that the conditions mentioned in the Option Agreement have been met. Due to the implementation of the EC Directive on Takeover Bids in the Netherlands, SPAQ has the option to acquire Preference Shares by SPAQ and the subsequent issuance of Preference Shares. SPAQ is acting with due observance and in consideration of the restrictions imposed by the Public Order Act of 1990. SPAQ was incorporated on August 2, 2004. Its principal office is located at Hulsterweg 10, 3720 XG, Utrecht, Netherlands. Its statutory objectives are to protect our interests and our enterprise and to ensure that our interests are linked to us. SPAQ shall attempt to accomplish its objectives by way of acquiring shares in QIAGEN and to exercise the voting rights in our interests and the interests of our shareholders. The board of SPAQ shall consist of at least two directors. Upon incorporation of SPAQ, the board of SPAQ shall consist of two directors. Additional board members shall be appointed by the board of SPAQ by a majority of the votes cast. SPAQ will be represented either by its board or by the chairman of the board.

Pre-emptive Rights

Under our Articles, existing holders of Common Shares will have pre-emptive rights in respect of the issuance of Common Shares in proportion to the number of Common Shares held by them, unless otherwise provided in our Articles. Holders of Common Shares shall not have pre-emptive rights in respect of future issuances of Financing Preference Shares or Preference Shares. Holders of Financing Preference Shares and Preference Shares shall not have pre-emptive rights in respect of any future issuances of share capital. Pre-emptive rights do not apply to the issuance of shares against contributions other than in cash or shares issued to our employees or one of our subsidiaries. Pursuant to our Articles, the Supervisory Board has the power to limit or exclude any pre-emptive rights in respect of the issuance of shares, provided that it has been authorized by the General Meeting to do so. The authority to limit or exclude pre-emptive rights can only be exercised if at that time the authority to limit or exclude pre-emptive rights has taken effect. The authority to limit or exclude pre-emptive rights may be extended in the same manner to the issuance of shares. If there is no designation of the Supervisory Board to limit or exclude pre-emptive rights, the General Meeting shall have authority to limit or exclude such pre-emptive rights, but only upon the request of the Supervisory Board.

Resolutions of the General Meeting (i) to limit or exclude pre-emptive rights or (ii) to the corporate body that has authority to limit or exclude pre-emptive rights, require a votes cast in a meeting of shareholders if less than 50% of the issued share capital is p purposes, issuances of shares include the granting of rights to subscribe for shares, su issue of shares upon exercise of such rights.

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On June 21, 2016, the General Meeting resolved to authorize the Supervisory Board to issue or repurchase Common Shares and Financing Preference Shares or grant rights to subscribe for such shares, which shall be equal to the aggregate par value of all shares issued and outstanding in the Netherlands as of December 31, 2015 as included in the Annual Accounts for Fiscal Year 2015.

The General Meeting subsequently resolved to grant the authority to restrict or exclude the authority to issue or repurchase Common Shares until June 21, 2017. However, the General Meeting has limited this authority in a way that the Supervisory Board may not limit the pre-emptive rights in relation to no more than 20% of the aggregate number of shares outstanding in the capital of the Company as of December 31, 2015.

Acquisition of Our Own Shares

We may acquire our own shares, subject to certain provisions of Dutch law and our Articles. (i) the payment required to make the acquisition does not fall below the sum of paid-up capital and reserves required by Dutch law or the Articles and (ii) we and our subsidiaries would not therefor incur a net expense of nominal value exceeding half of our issued share capital. Shares that we hold in our own shares and our subsidiaries may not be voted. The Managing Board, subject to the approval of the Supervisory Board, may acquire shares in our own capital. Our acquisitions of shares in our own capital are subject to the authority granted by the General Meeting has granted to the Managing Board the authority to effect such acquisitions. The authority is valid for a maximum period of 5 years and must specify the number of shares that may be acquired, the number of shares to be acquired and the price limits within which shares may be acquired. Dutch corporate law requires the Managing Board to purchase a number of shares equal to up to 50% of the Company's issued share capital. On June 21, 2016, the General Meeting resolved to extend the authorization in the manner that the Managing Board may cause us to acquire shares in our own share capital from June 21, 2016 until December 21, 2017, without limitation at a price between one Euro and one hundred and ten percent (110%) of the price for such shares on the NASDAQ Global Select Market as of the last trading day on the Exchange, for the five trading days prior to the day of purchase, or, with respect to Preference Shares, against a price between one Euro cent (Euro 0.01) and three times the issuance price of such shares, applicable provisions of Dutch law and our Articles.

Capital Reduction

Subject to the provisions of Dutch law and our Articles, the General Meeting may, upon the request of the Board, resolve to reduce the issued share capital by (i) canceling shares or (ii) reducing the share capital by an amendment of our Articles. Cancellation with repayment of shares or partial repayment of shares or obligation to pay up may also be made or given exclusively with respect to Common Shares and Financing Preference Shares.

Financial Year, Annual Accounts and Independent Registered Public Accounting Firm
Our financial year coincides with the calendar year. Dutch law and our Articles require the Managing Board, at the end of the financial year, the Managing Board must make available a report with respect to the financial statements for such year prepared under International Financial Reporting Standards and the audit report of an Independent Registered Public Accounting Firm. The annual report is submitted to the General Meeting for adoption.

The General Meeting appoints the external auditor of our statutory financial statements in accordance with International Financial Reporting Standards and to issue a report thereon. On June 21, 2016, the General Meeting appointed KPMG Accountants N.V. to serve as our external auditor for our statutory consolidated financial statements in accordance with International Financial Reporting Standards for the year ending December 31, 2017.

Dividends and Other Distributions

Subject to certain exceptions, dividends may only be paid out of profits as shown in our consolidated financial statements adopted by the General Meeting. Distributions may not be made if the distribution would result in the sum of the paid-up capital and any reserves required by Dutch law or our Articles being less than the sum of the paid-up capital and any reserves. Out of profits, dividends must first be paid on any outstanding Preference Shares (the "Preference Shares") in the percentage (the Preference Share Dividend Percentage) of the obligatory call amount of such shares at the beginning of the financial year in respect of which the distribution is made. The Preference Share Dividend Percentage is equal to the average main refinancing rates during the financial year for which the distribution is made.

refinancing rate shall be understood to mean the average value on each individual day of the distribution is made of the main refinancing rates prevailing on such day. The main refinancing rate to mean the rate of the Main Refinancing Operation as determined and published from time to time by the European Central Bank. If and to the extent that profits are not sufficient to pay the Preference Share Dividend out of the reserves, with the

exception of any reserve, which was formed as share premium reserve upon the issue of any financial year the profit is not sufficient to make the distributions referred to above, a partial distribution is made from the reserves referred to above, such that the deficit is covered, distributions will be made as described below until the deficit has been made good.

Out of profits remaining after payment of any dividends on Preference Shares, the Supervisory Board shall determine the amounts as shall be kept in reserve as determined by the Supervisory Board. Out of any reserve, a dividend (the Financing Preference Share Dividend) shall be paid on the Financing Preference Shares at a fixed percentage (the Financing Preference Share Dividend Percentage) over the nominal value of the Financing Preference Shares, increased by the amount of share premium that was paid upon the first issue of the Financing Preference Shares Dividend Percentage which percentage is related to a fixed interest rate on corporate loans in the United States as quoted in the Wall Street Journal. If and to the extent that the profits are not sufficient to pay the Financing Preference Share Dividend, a deficit may be paid out of the reserves if the Managing Board so decides with the approval of the Supervisory Board. The exception of the reserve which was formed as share premium upon the issue of Financing Preference Shares. Insofar as the profits have not been distributed or allocated to reserves as specified above, the Supervisory Board may allocate such profits, provided that no further dividends will be distributed on the Financing Preference Shares.

The General Meeting may resolve, on the proposal of the Supervisory Board, to distribute dividends, wholly or partially, in the form of QIAGEN shares.

Distributions as described above are payable as from a date to be determined by the Supervisory Board. The date of payment on Type I shares may differ from the date of payment on Type II shares. Distributions shall be made at the address or addresses in The Netherlands to be determined by the Supervisory Board, or at the address or addresses in any other country where the shares are listed or quoted for trading. The Supervisory Board may make distributions in cash distributions, provided that cash distributions in respect of Type II shares will, subject to the currency of a country where our shares are listed or quoted for trading, converted into the currency of the Netherlands as determined for that purpose by the Supervisory Board. Distributions in cash that have not been paid within one and two days after they have become due and payable shall revert to QIAGEN.

Dutch law provides that the declaration of dividends out of the profits that are at the disposal of the company is the exclusive right of the General Meeting. This is different from the corporate law of the United States, which permit a corporation's board of directors to declare dividends.

Shareholder Meetings, Voting Rights and Other Shareholder Rights

The annual General Meeting is required to be held within six months after the end of the financial year, among other things, adopting the annual accounts and filling of any vacancies on the board of directors. Extraordinary General Meetings are held as often as deemed necessary by the Managing Board or upon the request of one or more shareholders and other persons entitled to attend meetings of our issued share capital or by one or more shareholders jointly representing at least one-tenth of the issued share capital provided for and in accordance with the laws of The Netherlands.

General Meetings are held in Amsterdam, Haarlemmermeer (Schiphol Airport), Arnhem or The Hague. The notice convening a General Meeting must be given in such manner as to be received by the shareholder but not limited to an announcement published by electronic means no later than the forty days prior to the general meeting. The notice will contain the agenda for the meeting or state that the agenda shall be determined by the meeting. The agenda shall contain such subjects to be considered at the General Meeting, as the Managing Board or the meeting shall decide. Under Dutch law, holders of shares representing solely or jointly one-tenth of the issued share capital may request QIAGEN not later than on the sixtieth day prior to the meeting to include certain subjects on the notice convening a meeting. No valid resolutions can be adopted in respect of subjects which are not mentioned in the agenda.

Dutch corporate law sets a mandatory (participation and voting) record date for Dutch companies on the twenty-eighth day prior to the day of the shareholders' meeting. Shareholders registered in the share register may attend and exercise their rights as shareholders at the General Meeting, regardless of a

General Meetings are presided over by the chairman of the Supervisory Board or, in his absence, by the Supervisory Board.

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At the General Meeting, each share shall confer the right to cast one vote, unless otherwise provided. No votes may be cast in respect of shares that we or our subsidiaries hold, or by usufructuaries. Shareholders and other persons entitled to vote at General Meetings are entitled to attend such meetings and to vote. They must notify the Managing Board in writing of their intention to attend the meeting and to vote, no later than on the third day prior to the day of the meeting, unless the Managing Board permits a shorter period of time prior to any such meeting. Subject to certain exceptions, resolutions may be passed by a simple majority of the votes cast.

Except for resolutions to be adopted by the meeting of holders of Preference Shares, or resolutions of shareholders by written consent (or otherwise without holding a meeting), all resolutions of the General Meeting require the approval of the Supervisory Board. A resolution of the General Meeting to amend our Articles, dissolve QIAGEN, issue new shares or limit or exclude any pre-emptive rights to which shareholders shall be entitled requires the approval of the General Meeting by the Supervisory Board.

A resolution of the General Meeting to amend our Articles is further only valid if the Articles are made available for inspection by the shareholders and the other persons entitled to attend the General Meeting, no later than the day of notice convening such meeting until the end of the meeting. A resolution to amend or restrict the rights attached to the shares of a specific class requires the approval of the relevant class of shareholders. Resolutions of the General Meeting in a meeting that has not been convened by the Managing Board, or resolutions included on the agenda for the meeting at the request of shareholders, require the approval of a majority of two-thirds of votes cast representing more than half the issued share capital, or a greater majority or quorum.

A resolution of the General Meeting to approve a legal merger or the sale of all or substantially all of our assets, if adopted by a vote of at least two-thirds of the issued share capital, unless proposed in a meeting, requires in any case a simple majority of the votes cast shall be sufficient.

A shareholder shall upon request be provided, free of charge, with written evidence of the ownership of shares in regard to the shares registered in its name. Furthermore, any shareholder shall, upon written request, during normal business hours, to inspect our share register and a list of our shareholders and to make copies or extracts therefrom. Such request must be directed to our Managing Board in The Netherlands or at our principal place of business. Financial records and other company records (not made public) are not available in this manner for shareholder review, but an extract of the financial statements shall be made available.

According to Dutch law and our Articles, certain resolutions of the Managing Board require the approval of the General Meeting. The identity or nature of us or our enterprise are subject to the approval of the General Meeting. Resolutions of the Managing Board require the approval of the General Meeting in any event:

- (i) the transfer of our enterprise or practically our entire enterprise to a third party; or the entry into or termination of a long-term cooperation by us or one of our subsidiaries;
- (ii) another legal person or partnership or as a fully liable general partner of a limited liability company, if such cooperation or termination is of a far-reaching significance for us; and the acquisition or divestment by us or one of our subsidiaries (dochtermaatschappij);
- (iii) capital of a company with a value of at least one-third of the sum of our assets according to the balance sheet and explanatory notes in our last adopted annual accounts.

No Derivative Actions; Right to Request Independent Inquiry

Dutch law does not afford shareholders the right to institute actions on behalf of us or our subsidiaries. Shareholders holding at least one-tenth of our issued capital, or EUR 225,000, in nominal value of our shares, may request the Supervisory Board of their objections as to our policy or the course of our affairs. If the Supervisory Board thereafter, may request the Enterprises Division of the Court of Appeal in Amsterdam to order an inquiry into the course of our affairs by independent investigators. If such an inquiry is ordered and it is found that there has been mismanagement, the shareholders can request the Division to order certain resolutions, including the annulment of resolutions.

Dissolution and Liquidation

The General Meeting may resolve to dissolve QIAGEN. If QIAGEN is dissolved, the person designated for that purpose by the General Meeting, under the supervision of the General Meeting shall upon the proposal of the Supervisory Board determine the remuneration of the person responsible for supervising the liquidation.

During the liquidation process, the provisions of our Articles will remain applicable to the assets of the company. In the event of our dissolution and liquidation, the assets remaining after payment of all liabilities will be distributed among registered holders of Common Shares in proportion to the nominal value of the shares, subject to liquidation preference rights of holders of Preference Shares and Financing Shares. Restrictions on Transfer of Preference Shares

The Supervisory Board, upon application in writing, must approve each transfer of Preference Shares. The Supervisory Board will designate prospective purchasers willing and able to purchase the shares. Transfers will be deemed approved.

Limitations in our Articles on Rights to Own Securities

Other than with respect to usufructuaries and pledgees who have no voting rights, our Articles do not restrict the rights to own our securities.

Provisions which May Defer or Prevent a Change in Control

The Option Agreement and our Articles could, under certain circumstances, prevent a change of control of the voting control of our shares by issuing Preference Shares. Under the Option Agreement, the Preference Shares subject to the provisions referred to under "Preference Shares".

If SPAQ acquires the Preference Shares, the bidder may withdraw its bid or enter into a new bid for our shares. Board and/or Supervisory Board and agree on a higher bid price for our shares.

Shareholders who obtain control of a company are obliged to make a mandatory offer for the shares of the company if the threshold for a mandatory offer is set at the ability to exercise 30% of the voting rights. This obligation applies to shareholders in a Dutch public limited company (naamloze vennootschap) whose securities are traded on a regulated market in the EU, such as QIAGEN.

Ownership Threshold Requiring Disclosure

Our Articles do not provide an ownership threshold above which ownership must be disclosed. Dutch law requires requirements to disclose share ownership above certain thresholds under Dutch law—disclose major holdings".

Exchange Controls

There are currently no limitations either under the laws of The Netherlands or in our Articles restricting the ability of persons from outside The Netherlands to hold or vote Common Shares. Under current foreign exchange regulations in The Netherlands, there are no material limitations on the amount of cash payments that we can make to other countries.

Obligation of Shareholders to Disclose Major Holdings

Certain holders of our shares or rights to acquire shares (which include options and convertible bonds) are subject to notification obligations under Chapter 5.3 of the Dutch Financial Markets Supervision Act (FMSA). Under Chapter 5.3 of the FMSA, any person who, directly or indirectly, acquires or disposes of a significant potential interest, such as options and convertible bonds), in our capital or voting rights must notify the Netherlands Authority for the Financial Markets (AFM) by means of a standard form. The notification must include the disposal, the percentage of capital interest or voting rights held by such person in QIAGEN, and whether any of the following thresholds: 3%, 5%, 10%, 15%, 20%, 25%, 30%, 40%, 50%, 60% or more of the outstanding capital interests in the issued capital of QIAGEN. This also applies if a short position is acquired. If both a (gross) short position and a long position exceeding the threshold are held, the long position is to be reported.

A notification requirement also applies if a person's capital interest or voting rights reach or exceed the mentioned thresholds as a result of a change in our total share capital or voting rights. We must notify the AFM no later than the fourth trading day after the AFM has published our notification as described in the AFM immediately of the changes to our total share capital or voting rights if our share capital or voting rights change by 1% or more since our previous notification. We must furthermore quarterly notify the AFM at the end of the relevant quarter, in the event our share capital or voting rights changed by 1% or more since our previous notification.

Furthermore, each person who is or ought to be aware that, as a result of the exchange of shares for options or as options for shares, his actual capital or voting interest in QIAGEN, reaches, exceeds or is about to reach or exceed

thresholds: 3%, 5%, 10%, 15%, 20%, 25%, 30%, 40%, 50%, 60%, 75% and 95%, vis the AFM, must give notice to the AFM no later than the fourth trading day after he be change.

Controlled entities, within the meaning of the FMSA, do not have notification obligations and indirect interests are attributed to their (ultimate) parent. Any person may qualify including an individual. A person who has a 3% or larger interest in our share capital controlled entity for these purposes must immediately notify the AFM. As of the date obligations under the FMSA will become applicable to that entity. For the purpose of interest or voting rights, among other metrics, the following interests must be taken in rights on our shares directly held (or acquired or disposed of) by a person, (ii) our shares (or acquired or disposed of) by such person's subsidiaries or by a third party for such with whom such person has concluded an oral or written voting agreement (including and (iii) our shares or voting rights on our shares which such person, or any subsidiary, acquire pursuant to any option or other right held by such person (or acquired or disposed on the basis of convertible bonds). Special rules apply with respect to the attribution of shares which are part of the property of a partnership or other community of property usufruct (vruchtgebruik) in respect of our shares can also be subject to the notification person has, or can acquire, the right to vote on our shares or, in the case of depository acquisition of (conditional) voting rights by a pledgee or usufructuary may also trigger pledgee or beneficial owner were the legal holder of our shares or voting rights on our settled derivatives (such as cash settled call options and total equity return swaps) referred taken into account for the purpose of calculating the percentage of capital interest.

In addition, pursuant to Regulation (EU) No 236/2012, each person holding a net short issued share capital of a Dutch company that has shares admitted to trading on a Euro report it to the AFM. Each subsequent increase of this position by 0.1% above 0.2% or short position equal to 0.5% of the issued share capital of a Dutch listed company and position by 0.1% will be made public via the AFM short selling register. To calculate person has a net short position, their short positions and long positions must be set-off only be contracted if a reasonable case can be made that the shares sold can actually be confirmation of a third party that the shares have been located.

The AFM does not issue separate public announcements of these notifications. It does notifications under the FMSA on its website www.afm.nl. Third parties can request to changes to the public register in relation to a particular company's shares or a particular Non-compliance with the notification obligations under the FMSA may lead to criminal imprisonment or other sanctions. In addition, non-compliance with the shareholding may lead to civil sanctions, including suspension of the voting rights relating to our shares of not more than three years and a prohibition applicable to the offender to acquire and shares for a period of up to five years.

Management

Pursuant to European Union Regulation (EU) No 596/2014 (the "Market Abuse Regulation" thereunder, any Managing Board member and Supervisory Board member, as well as managerial responsibilities in respect of QIAGEN who has regular access to inside information to QIAGEN and power to take managerial decisions affecting future developments and must notify the AFM by means of a standard form of any transactions conducted for their own shares or debt instruments of QIAGEN or to derivatives or other financial instruments. In addition, pursuant to the Market Abuse Regulation, certain persons who are closely members and Supervisory Board members or any of the other persons as described above any transactions conducted for their own account relating to the shares or debt instruments or other financial instruments linked thereto. The Market Abuse Regulation covers, inter persons: (i) the spouse or any partner considered by national law as equivalent to the

other relatives who have shared the same household for at least one year at the relevant person, trust or partnership whose, among other things, managerial responsibilities are discharged under (i) to (iii) above or by the relevant Managing Board members and Supervisory Board members in discharging the managerial responsibilities in respect of QIAGEN as described above.

The notifications pursuant to the Market Abuse Regulation described above must be made on the first business day following the relevant transaction date. Under certain circumstances, the notifications must be made until all transactions within a calendar year have reached a total amount of €5,000 (calculated as of the last subsequent transaction must be notified as set forth above.

Taxation

The following is a general summary of certain material United States federal income tax consequences for holders of our Common Shares who are “U.S. Holders” (as such term is defined below) and certain tax consequences for holders of our Common Shares who are “non-resident Shareholders” or “Shareholders who are not U.S. Holders.” This summary does not discuss every aspect of such taxation that may be relevant to such holders. Purchasers of our Common Shares described above are advised to consult their own tax advisors regarding the United States federal, state and local tax consequences, as well as The Netherlands tax consequences, of owning our Common Shares. This summary is based upon the advice of Blais, Halpert, Lieberman & Associates, P.A. (“Blais”) regarding the tax consequences for U.S. Holders under United States law and Baker & McKenzie with respect to the tax consequences for non-resident Shareholders or Shareholders under Netherlands law.

The statements of The Netherlands and United States tax laws set out below are based on the tax laws in effect at the time of this Annual Report on Form 20-F, and as a consequence are subject to any changes in the tax laws of either country or in the double taxation conventions between the United States and The Netherlands.

Netherlands Tax Considerations

The following describes the material tax consequences under Netherlands law of an individual who is not a resident of The Netherlands. Such description is based on current Netherlands law as interpreted under officially published tax rulings. It does not address tax implications for an owner of our Common Shares who is not, or is not deemed to be, an individual for purposes of the relevant tax codes (a “non-resident Shareholder” or “Shareholder”).

Dividend Withholding Tax

General. Upon distribution of dividends, we would be obligated to withhold 15% dividend withholding tax on the amount withheld to The Netherlands tax authorities. The term “dividends” means income from shares, including participating in profits, as well as income from other corporate rights that is subjected to dividend withholding tax on income from shares by the laws of The Netherlands. Dividends include dividends in cash, dividends in kind, and certain repayments of capital qualified as dividends, interest on loans that are treated as dividends for income tax purposes and liquidation proceeds in excess of, for Netherlands tax purposes, the net assets. Dividends are also subject to withholding tax, unless derived from our paid-in share premium, which is not subject to withholding tax for Netherlands tax purposes.

No withholding tax applies on the proceeds resulting from the sale or disposition of our Common Shares by more than QIAGEN and our affiliates.

A Shareholder can be eligible for a reduction or a refund of Netherlands dividend withholding tax if there is a tax treaty between the country of residence of the Shareholder and The Netherlands. Such conventions with, among others, the United States, Canada, Switzerland, Japan and the United Kingdom. A Shareholder can also be eligible for a refund of Netherlands dividend withholding tax if the Shareholder is a resident of The Netherlands and has paid Netherlands income tax or corporate income tax that would have been payable if such Shareholder was not a resident of the Netherlands.

U.S. Shareholders. Under the Tax Convention between The Netherlands and the United States, the 15% withholding tax on dividends we pay to a resident of the United States (as defined in the Convention), the benefits of the Convention, may be reduced to 5% (in the case of a corporate U.S. Shareholder, 1% if the U.S. Shareholder holds less than 10% of the voting power of a Netherlands company) unless such U.S. shareholder has a permanent establishment in The Netherlands with which the shares are effectively connected.

A full exemption from Netherlands withholding tax may apply to certain U.S. corporate Shareholders who exercise QIAGEN voting power for a period of at least twelve months prior to the distribution of dividends. Dividends we pay to U.S. pension funds and U.S. tax exempt organizations may be eligible for a full exemption from withholding tax.

Dividend Stripping. A refund, reduction, exemption, or credit of Netherlands dividend withholding tax may be available under Netherlands tax law or on the basis of a tax treaty between The Netherlands and another country.

dividends are paid to the beneficial owner (“uiteindelijk gerechtigde”) of the dividend considered to be the beneficial owner of a dividend in an event of “dividend stripping” related to the receipt of such dividend. In general terms, “dividend stripping” can be c

foreign or domestic person (usually, but not necessarily, the original shareholder) has entitlement to the dividend distributions to a party that has a more favorable right to a dividend withholding tax than the foreign or domestic person. In these situations, the original shareholder) avoids Netherlands dividend withholding tax while retaining his the dividend distributions, by transferring his shares or his entitlement to the dividend Income Tax and Corporate Income Tax

General. A non-resident Shareholder will not be subject to Netherlands income tax on dividends we distribute on our Common Shares or with respect to capital gains derived from our Common Shares, provided that:

(a) the non-resident Shareholder does not carry on or have an interest in a business in The Netherlands through an establishment or a permanent representative to which or to whom the Common Shares are attributable;

(b) the non-resident Shareholder does not have a direct or indirect substantial or deemed interest (‘‘aanzienlijk belang,’’ as defined in The Netherlands tax code) in our share capital or, in the event that the Shareholder has a substantial interest, such interest is a ‘‘business asset,’’ or, in case of a corporate Shareholder, such arrangements are not put in place with the main purpose or one of the main purposes of the arrangement is to avoid tax for another person or otherwise cannot be considered artificial. An arrangement or transaction is artificial to the extent not put in place for valid commercial reasons that reflect economic substance;

(c) the non-resident Shareholder is not entitled to a share in the profits of an enterprise in The Netherlands attributable and that is effectively managed in The Netherlands, other than by way of a management contract.

In general terms, a substantial interest (‘‘aanzienlijk belang’’) in our share capital does not exist if an individual (individuals as well as corporations), alone or together with his partner, does not own, directly or indirectly, the nominal paid-in capital of, or any class of our shares, does not have the right to acquire, directly or indirectly, the nominal paid-in capital of, or any class of our shares (including a call option) and does not have the right to receive liquidation revenue amounting to 5% or more of the annual profits or liquidation revenue. There is no all-encompassing definition of the term ‘‘business asset’’; whether this determination depends on the facts presented and in particular on the activities performed by the Shareholder. A Shareholder conducts a business activity, while the key interest of his investment in our Shares will be his economic activity in our investment in our Shares but our economic activity, an investment in our Shares will not be a business asset, in particular if the Shareholder’s involvement in our business will exceed the scope of his investment in our Shares.

U.S. Shareholders. Pursuant to the Convention, the gain derived by a U.S. Shareholder from the sale of our Shares constituting a substantial interest of the Shareholder in QIAGEN, not effective for purposes of the Convention with a permanent establishment or permanent representative of the Shareholder in The Netherlands income tax or corporate income tax, provided that the gain from the alienation of our Shares is derived by an individual Shareholder who has, at any time during the five-year period preceding the alienation, been a resident of The Netherlands according to Netherlands tax law and who owns, at the time of the alienation, together with close relatives, at least 25% of any class of our shares.

Gift and Inheritance Tax

A gift or inheritance of our Common Shares from a non-resident Shareholder will generally be subject to gift and inheritance tax, provided that the Shareholder does not own a business which is attributable to the Shares through a permanent establishment or a permanent representative in The Netherlands. The Netherlands has concluded a tax convention with the United States. Under this convention, taxation on inheritances may be avoided if the inheritance is subject to Netherlands income tax and the deceased was a resident of either The Netherlands or the United States.

United States Federal Income Tax Considerations

The following summarizes certain material U.S. federal income tax consequences of the sale or disposition of our Common Shares by an investor that purchases such Common Shares and that will have a material effect on its assets. This summary does not purport to be a complete analysis or listing of all potential

address holders subject to special treatment under U.S. federal income tax laws (including organizations, regulated investment companies, financial institutions, broker dealers, alternative minimum tax, or holders that own, actually or constructively, 10% or more

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As used herein, references to a “U.S. Holder” are to a holder of our Common Shares for purposes of the United States, (ii) a corporation, limited liability company or partnership organized in the United States or any political subdivision thereof, (iii) any estate (other than an estate outside the United States that is not effectively connected with a trade or business within the United States in its gross income for U.S. federal income tax purposes), and (iv) any trust if a court or other authority exercises primary supervision over the administration of the trust and one or more U.S. persons exercise all substantial decisions of the trust; and references to a “non-U.S. Holder” are to a holder of our Common Shares that is not a U.S. Holder.

Taxation of Dividends

To the extent paid out of our current or accumulated earnings and profits, as determined in accordance with applicable principles, distributions, if any, made with respect to our Common Shares will be included in the income of a U.S. Holder as ordinary dividend income in an amount equal to the fair market value of any property that we distribute, before reduction for Netherlands withholding tax. Dividends will be eligible to be treated by U.S. Holder individuals, trusts and estates as “qualified dividends” if they are received at a rate of 20 percent (plus possibly an additional 3.8 percent on net investment income; see “Income Tax Considerations — Surtax on Net Investment Income”), if the shareholder meets the holding period requirements, does not treat the dividends as “investment income” for purposes of the deduction, is not under any obligation to make related payments with respect to position in the company, the property, and if we are not treated for our taxable year in which the dividend is paid, as a controlled foreign company or passive foreign investment company (see “Taxation—United States Federal Income Tax—Dividends—Investment Company Status”). To the extent that such distribution exceeds our current and accumulated earnings and profits, it will be treated as a non-taxable return of capital to the extent of the U.S. Holder’s adjusted basis and thereafter as taxable capital gain. Dividends generally will be treated as income for U.S. federal income tax purposes and generally will be passive category income (or, in the case of certain holders, “financial income”) for purposes of the foreign tax credit limitation. Dividends we pay will not be eligible for the dividend received deduction for corporations in certain circumstances under the United States Internal Revenue Code. A U.S. Holder may elect annually to either deduct The Netherlands withholding tax (see “Income Tax Considerations—Dividend Withholding Tax”) against their income (in which case, the dividend will be treated as a tax credit against U.S. federal income taxes such U.S. Holder paid in that year) or take the withholding taxes as a credit against their foreign tax credit. U.S. foreign tax credit limitation rules. If the dividends are qualified for the lower applicable rate (see “Income Tax Considerations—Dividend Withholding Tax” above), the amount of the dividend income taken into account for calculating the foreign tax credit will be limited to the gross amount of the dividend, multiplied by the reduced rate, divided by the applicable rate. The rules governing the foreign tax credit are complex. We urge you to consult with your tax advisors regarding the availability of the foreign tax credit in your particular circumstances. A non-U.S. Holder generally will not be subject to U.S. federal income tax or withholding tax on dividends received from our Common Shares that are treated as dividend income for U.S. federal income tax purposes, unless the dividends are effectively connected with the conduct of a trade or business within the United States or the dividends are attributable to a permanent establishment maintained in the United States by such non-U.S. Holder. A non-U.S. Holder so requires as a condition for such non-U.S. Holder to be subject to U.S. tax on dividends received from our Common Shares, in which case the non-U.S. Holder generally will be subject to U.S. federal income tax on dividends in the same manner as a U.S. Holder. Any such effectively connected income will be treated as a corporation for U.S. federal income tax purposes may also, under certain circumstances, be subject to an additional “branch profits tax” at a 30% rate or such lower rate as may be specified by applicable law. A non-U.S. Holder generally will not be subject to U.S. federal income tax or withholding tax on dividends received from our Common Shares that are treated as capital gain for U.S. federal income tax purposes, unless the dividends are subject to U.S. federal income tax on gain realized on the sale or other disposition of the property. See “Income Tax Considerations—Capital Gains” below.

Surtax on Net Investment Income

Certain U.S. Holders that are individuals, estates or trusts and whose income exceeds a certain threshold will be subject to an additional 3.8% surtax on some or all of their “net investment income” (or, in the case of

undistributed net investment income). Net investment income generally includes dividends received from the disposition of, our Common Shares unless such dividends or gain is derived in the operation of a trade or business (other than a trade or business that consists of certain passive or trading activities). For more information, see the discussion of the Net Investment Tax in the Taxation of Capital Gains section of this prospectus. Consult your tax advisors regarding the effect this surtax may have, if any, on your acquisition, ownership, and disposition of our Common Shares.

Taxation of Capital Gains

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Subject to the "passive foreign investment company" (PFIC) rules discussed below, upon the disposition of our Common Shares, a U.S. Holder will recognize gain or loss for U.S. federal income tax purposes equal to the difference between the amounts realized on the disposition of our Common Shares and the adjusted cost basis of our Common Shares. Such gain or loss generally will be subject to U.S. federal income tax, which is generally subject to a maximum capital gains rate of 20% for our Common Shares held by a U.S. Holder (plus an additional 3.8 percent on net investment income, as discussed above). For U.S. federal income tax purposes, net losses are subject to limitations on deductibility. Gain realized by a U.S. Holder on the disposition of our Common Shares generally will be treated as income from sources within the United States for purposes of the credit limitation.

A non-U.S. Holder will not be subject to U.S. federal income tax or withholding tax on the disposition of our Common Shares unless (i) the gain is effectively connected with a trade or business conducted by the Holder in the United States (and is attributable to a permanent establishment maintained by the Holder in the United States), or (ii) the non-U.S. Holder, if an applicable income tax treaty so requires as a condition for such treaty's application, is subject to taxation on a net income basis in respect of gain from the sale or other disposition of our Common Shares. If the holder is an individual who is present in the United States for 183 days or more in the taxable year, and if the other conditions are met. Effectively connected gains realized by a corporate Non-U.S. Holder on the disposition of our Common Shares, in certain circumstances, be subject to an additional "branch profits tax" at a 30% rate or such lower rate as may be provided in an applicable income tax treaty.

Passive Foreign Investment Company Status

We may be classified as a PFIC for U.S. federal income tax purposes if certain tests are applied to a U.S. Holder if for any taxable year in which the U.S. Holder held our Common Shares, (i) the average gross income for the taxable year is passive income; or (ii) the average value of our assets, which produce or are held for the production of passive income is at least 50% of the average value of our assets. Passive income means, in general, dividends, interest, royalties, rents (other than rents derived from the conduct of a trade or business and not derived from a related person), annuities, and gains from the sale of such income other than sales of inventory. For the purpose of the PFIC tests, if a foreign corporation owns 10% or more of the value of the stock of another corporation, the foreign corporation is treated as owning its proportionate share of the other corporation, and as if it had received directly its proportionate share of the income of the other corporation. In effect of this special provision with respect to QIAGEN and our ownership of our subsidiaries, the income and assets tests described above, will be treated as owning directly our proportionate share of the income of our subsidiaries and of receiving directly our proportionate share of each of those companies' income. If a foreign corporation directly or indirectly, at least 25% by value of the particular company's stock. Active income of a foreign corporation will be treated as our active business income, rather than as passive income. Based on our review of our financial statements, we do not believe that we were a PFIC for our taxable years ended December 31, 2014, 2015, 2016, and do not expect to be a PFIC for the current taxable year. No assurances can be given that we will not challenge this position or that we will not subsequently become a PFIC. Following the determination that we are a PFIC, we will promptly send a notice to all shareholders of record at any time during such year, if we are a PFIC. Prospective purchasers of our Common Shares are urged to consult their tax advisors regarding the effect on an investment in our Common Shares, with particular regard to (i) the advisability of making the "electing fund" election in the event that we notify the shareholders that we have become a PFIC, and (ii) the advisability of making the "mark-to-market" election provided in the tax law.

Backup Withholding and Information Reporting

In general, dividend payments, or other taxable distributions, paid within the United States through financial intermediaries on our Common Shares will be subject to information reporting and backup withholding tax at the rate of 28% for a non-corporate United States person and, who is a U.S. Holder, fails to provide an accurate taxpayer identification number;

- is notified by the Internal Revenue Service that the individual has failed to report income from the sale of our Common Shares; or
- is shown on the Federal income tax returns; or
- in certain circumstances, fails to comply with applicable certification requirements.

Certain corporations and persons that are not United States persons may be required to provide information reporting and backup withholding by certifying their status on Internal Revenue Service applicable Form W-8.

If a United States person sells our Common Shares to or through a United States office, the proceeds is subject to both United States backup withholding and information reporting. If they are a non-U.S. person, under penalties of perjury, or they otherwise establish an exemption, they must sell our Common Shares through a non-U.S. office of a non-U.S. broker and the sale must occur outside the United States.

States then information reporting and backup withholding generally will not apply to information reporting requirements, but not backup withholding, will apply to a payment if the payment is made to the United States person outside the United States, if the person is a non-U.S. office of a broker that is a U.S. person or has certain other contacts with the United States. A holder generally may obtain a refund of any amounts withheld under the backup withholding from the holder's income tax liability by filing a refund claim with the United States Internal Revenue Service.

Foreign Currency Issues

If dividends on our Common Shares are paid in euros, the amount of the dividend distributed to a U.S. Holder will be the U.S. dollar value of the payments made in euros, determined as of the date applicable to the date such dividend is includible in the income of the U.S. Holder, regardless of the fact converted into U.S. dollars. Generally, gain or loss (if any) resulting from currency fluctuations over the period from the date the dividend is paid to the date such payment is converted into U.S. dollars is included in income or loss. We have never paid cash dividends on our share capital and do not intend to do so in the future.

Certain Information Reporting Requirements

Individuals who are U.S. Holders (and to the extent specified in applicable Treasury Regulations, certain U.S. Holders and certain U.S. Holders that are entities), and who hold "specified foreign financial assets" (as defined in section 6038D of the Code), including stock of a non-U.S. corporation that is not held in an account with a "qualified institution" (as defined in section 6038D of the Code), whose aggregate value exceeds \$100,000 per year or \$75,000 at any time during the tax year, may be required to attach to their tax return information (on IRS Form 8938). (Higher thresholds apply to married individuals filing jointly who are residing outside of the United States.) An individual who fails to timely furnish the required information may be subject to a penalty, unless the failure is shown to be due to reasonable cause and not due to willful neglect. If a U.S. Holder does not file such a report, the statute of limitations on the assessment and collection of such U.S. Holder for the related tax year may not close before such report is filed. A U.S. Holder or entity may be treated as an individual for purposes of the foregoing rules. U.S. Holders should consult their own tax advisors regarding their reporting obligations under this legislation.

Documents on Display

Documents referred to in this Annual Report may be inspected at our principal executive office, 5912 PL Venlo, The Netherlands.

Item 11. Quantitative and Qualitative Disclosures About Market Risk

Our market risk relates primarily to interest rate exposures on cash, short-term investments and foreign currency exposures. Financial risk is centrally managed and is regulated by internal governance and internal risk analysis. The overall objective of our risk management is to reduce the potential impact of changes in interest and foreign exchange rates. Exposures are managed through operational hedging instruments relating to interest rate and foreign exchange risks. In the ordinary course of business, we use derivative instruments, including swaps, forwards and/or options, to manage potential losses from fluctuations in interest rates. The principal objective of such derivative instruments is to minimize the impact of fluctuations in global financial and operating activities. We do not utilize derivative or other financial instruments for speculative purposes. All derivatives are recognized as either assets or liabilities in the balance sheet at fair value with any change in fair value recognized in earnings in the period of change. We maintain an effective hedge that offsets certain exposures. In determining fair value, we consider the creditworthiness of our own creditworthiness, to the extent that the derivatives are not covered by collateral or other arrangements with counterparties.

Foreign Currency Derivatives. As a globally active enterprise, we are subject to risks associated with fluctuations in currencies in our ordinary operations. This includes foreign currency-denominated receivables and payables, balance sheet positions. We manage our balance sheet exposure on a group-wide basis using forward contracts, options and cross-currency swaps.

Interest Rate Derivatives. We are using interest rate derivatives to align our portfolio of financial assets with our risk management objectives. We have entered into interest rate swaps in which we

intervals, the difference between fixed and floating interest amounts calculated by reference to the principal amount.

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Further details of our derivative and hedging activities can be found in Note 13 to the statements.

Interest Rate Risk

At December 31, 2016, we had \$439.2 million in cash and cash equivalents as well as investments. Interest income earned on our cash investments is affected by changes in rates. We only invest in high-grade investment instruments. A hypothetical adverse 10% movement in market interest rates would not have materially impacted our financial statements.

Borrowings against lines of credit are at variable interest rates. We had no amounts outstanding at December 31, 2016. A hypothetical adverse 10% movement in market interest rates would not have materially impacted our financial statements.

At December 31, 2016, we had \$1.1 billion in long-term debt, none of which is at a variable rate. Using interest rate derivatives we have swapped \$200 million of our fixed rate debt into a variable rate debt indexed to LIBOR. A hypothetical adverse 10% movement in market interest rates would not have materially impacted our financial statements, as the increased interest expense would have been off-set by increased interest income on our financial assets.

Foreign Currency Exchange Rate Risk

As a global enterprise, we are subject to risks associated with fluctuations in foreign currency exchange rates on our operations. This includes foreign currency-denominated receivables, payables, debt, and equity, as well as future cash flows resulting from anticipated transactions including intra-group transactions. A significant portion of our revenues and expenses are earned and incurred in currencies other than the U.S. dollar. The U.S. dollar is the most significant such currency, with others including the British pound, Japanese yen, Euro, and Canadian and Australian dollars. Fluctuations in the value of the currencies in which we operate relative to the U.S. dollar have caused and will continue to cause U.S. dollar translations of such currencies to fluctuate. Due to the number of currencies involved, the constantly changing currency exchange rates, and the volatility of currency exchange rates, we cannot predict the effect of exchange rate fluctuations on our results. In general terms, depreciation of the U.S. dollar against our other foreign currencies would result in an increase in the U.S. dollar value of our foreign currency assets and liabilities. However, this effect is, at least partially, offset by the fact that we also incur substantial expenses in the U.S. dollar. We have significant production and manufacturing facilities located in Germany and the United Kingdom, which expose us to foreign currency exchange rate risk. Intercompany sales of inventory are denominated in the currency of the subsidiary purchasing the inventory in order to centralize foreign currency risk in the purchasing subsidiary. We use an in-house bank approach to net and settle intercompany payable and receivable transactions. We use intercompany foreign exchanged swaps and forward contracts in order to centralize the foreign exchange risk to the extent possible. We have entered in the past and may enter in the future into foreign currency forwards, swaps and options to manage the remaining foreign exchange exposure.

Item 12. Description of Securities Other than Equity Securities

Not applicable.

PART II

Item 13. Defaults, Dividend Arrearages and Delinquencies

Not applicable.

Item 14. Material Modifications to the Rights of Security Holders and Use of Proceeds

Not applicable.

Item 15. Controls and Procedures

Disclosure Controls and Procedures

Our Managing Directors, with the assistance of other members of management, performed an evaluation of the design and operation of our disclosure controls and procedures, as that term is defined in Rules 15d-15(e) of the Securities Exchange Act of 1934, as amended, within 90 days of the end of the period covered by this report. In the course of this evaluation, they concluded that as of December 31, 2016, our disclosure controls and procedures were designed and operating in a manner that information required to be disclosed by us in the reports that we file or submit under the Securities Exchange Act of 1934, as amended, is processed, summarized and reported, within the time periods specified in the SEC's rules, and that such information is communicated to our management, including our Managing Directors, as appropriate to allow them to make the required disclosure.

There are inherent limitations to the effectiveness of any system of disclosure controls and procedures, no matter how well designed, such as the possibility of human error and the circumvention or overriding of the controls and procedures. Therefore, even those systems determined to be effective may not prevent or detect material misstatements or omissions. In addition, any determination of the effectiveness of those controls and procedures is a projection of any effectiveness of those controls to future periods, as those controls and procedures are subject to changes in conditions or the degree of compliance with the policies or procedures may vary over time. **Report of Management on Internal Control over Financial Reporting**

Our management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rules 13a-15(f) and 15d-15(f) under the Securities Exchange Act of 1934, as amended. Our internal controls over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the consolidated financial statements in accordance with generally accepted accounting principles.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements, even when determined to be effective can provide only reasonable assurance with respect to the completeness and presentation. Projections of any evaluation of effectiveness to future periods are subject to the risk that they become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Our management assessed the effectiveness of the Company's internal control over financial reporting as of December 31, 2016. In making this assessment, management used the updated criteria set forth in 2013 COSO Framework issued by the Organizations of the Treadway Commission (COSO) in Internal Control-Integrated Framework. Based on our assessment under the COSO Internal Control-Integrated Framework, management concluded that as of December 31, 2016, our internal control over financial reporting is effective.

Attestation Report of the Independent Registered Public Accounting Firm

KPMG AG Wirtschaftsprüfungsgesellschaft, the independent registered public accounting firm, has audited our consolidated financial statements prepared in accordance with U.S. generally accepted accounting principles for the year ended December 31, 2016, and for the year ended December 31, 2015, and has also audited the effectiveness of the Company's internal control over financial reporting as of December 31, 2016. Their report is included in this Annual Report.

Changes in Internal Control over Financial Reporting

There has been no change in our internal control over financial reporting during 2016 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Item 16A. Audit Committee Financial Expert

The Supervisory Board has designated Mr. Lawrence Rosen as an “audit committee financial expert” under the SEC rules adopted pursuant to the Sarbanes-Oxley Act. Mr. Rosen is “independent” under the NASDAQ as applicable to Audit Committees.

Item 16B. Code of Ethics

QIAGEN has in place a Code of Conduct which qualifies as a code of ethics, as required by the NYSE Marketplace Rules. The Code of Conduct applies to all of QIAGEN’s employees, including its principal financial officer, principal accounting officer or controller and other persons. The full text of the Code of Conduct is available on our website at www.qiagen.com.

Item 16C. Principal Accountant Fees and Services

Audit Committee Pre-Approval Policies and Procedures

The Audit Committee has adopted a policy that requires the pre-approval of all services to be provided by an independent registered public accounting firm. Additionally, the Audit Committee has granted its Chairman full authority to approve any management request for pre-approval, provided that the request is given at its next scheduled meeting. All audit-related services, tax services and other services provided by a registered public accounting firm or their affiliates were pre-approved by the Audit Committee to ensure maintaining the auditor’s independence.

Set forth below are the total fees billed (or expected to be billed), on a consolidated basis, to the public accounting firm or their affiliates for providing audit and other professional services (in millions)

	2016	2015
Audit fees	\$ 1.9	\$ 1.9
-consolidated financial statements	1.2	1.3
-statutory financial statements	0.7	0.6
Audit-related fees	0.5	0.1
Total	\$ 2.4	\$ 2.0

Audit fees consist of fees and expenses billed for the annual audit and quarterly review of financial statements. They also include fees billed for other audit services, which are those services that the firm provides, and include the review of documents filed with the Securities Exchange Commission. Audit-related fees consist of fees and expenses billed for assurance and related services that are provided by the firm in connection with the audit or review of QIAGEN’s financial statements and include consultations concerning accounting and reporting standards and review of the opening balance sheets of newly acquired companies. Tax fees include fees and expenses billed for tax compliance services, including assistance with tax returns and claims for refund; tax consultations, such as assistance and representation in connection with tax matters. Other fees include various fees and expenses billed for services as approved by the Audit Committee under the Sarbanes-Oxley Act of 2002. Tax fees for the year ended December 31, 2016 totaled \$0.5 million.

Item 16D. Exemptions From the Listing Standards for Audit Committees

Not applicable.

Item 16E. Purchases of Equity Securities by the Issuer and Affiliated Purchasers

Not applicable.

Item 16F. Change in Registrant’s Certifying Accountant

Not applicable.

Item 16G. Corporate Governance

We recognize the importance of clear and straightforward rules on corporate governance and have adapted our internal organization and processes to these rules. This section provides a description of our governance structure and includes details of the information required under the Dutch Corporate Governance Code (the Dutch Code). The Dutch Code is applicable to QIAGEN N.V. (in the following also referred to as QIAGEN), a publicly listed company incorporated under the laws of The Netherlands with a registered office in The Netherlands. The Dutch Code contains the principles and concrete provisions which the persons in the Managing Board members and Supervisory Board members) and stakeholders should follow. Our corporate governance practices generally derive from the provisions of the Dutch Corporate Governance Code. Further, due to our listing on the NASDAQ exchange in the U.S., the Supervisory Board of QIAGEN N.V. declared their intention to disclose in QIAGEN's annual report compliance with the corporate governance practices followed by U.S. companies and to state the deviations recorded in the period.

A brief summary of the principal differences follows.

Corporate Structure

QIAGEN is a 'Naamloze Vennootschap,' or N.V., a Dutch limited liability company incorporated in the Netherlands. QIAGEN has a two-tier board structure. QIAGEN is managed by a Managing Board acting under the supervision of a Supervisory Board (non-executives), which is a separate corporation. It is in the interest of QIAGEN and all its stakeholders that each Board performs its duties in such a way that there is a clear division of responsibilities between the Managing Board, the Supervisory Board, the shareholders (General Meeting) and the external auditor in a well-functioning system.

Managing Board

General

The Managing Board manages QIAGEN and is responsible for defining and achieving the company's strategy and results. The Managing Board is also responsible for complying with all relevant laws and regulations, for managing the risks associated with the business activities and the financing of QIAGEN, and for monitoring and discussing the internal risk management and control systems with the Supervisory Board. The Managing Board is accountable for the performance of its duties to the Supervisory Board and the Shareholders (General Meeting). The Managing Board provides the Supervisory Board with the necessary information for the exercise of the duties of the Supervisory Board. In discharging its duties, the Managing Board acts in the interests of QIAGEN, its enterprises and all parties involved in QIAGEN, including its shareholders.

Composition and Appointment

The Managing Board consists of one or more members as determined by the Supervisory Board. The members of the Managing Board are appointed by the General Meeting upon the joint meeting of the Supervisory Board (the Joint Meeting) having made a binding nomination for each vacancy. However, the Supervisory Board may overrule the binding nature of such a nomination by a resolution adopted by at least a two-thirds majority, if such majority represents more than half the issued share capital. Managing Directors are appointed for a period beginning on the date following the Annual General Meeting up to and including the date of the next Annual Meeting held in the following year.

Members of the Managing Board may be suspended and dismissed by the General Meeting upon a two-thirds majority of the votes cast, if such majority represents more than half of the issued share capital. A proposal was made by the Joint Meeting, in which case a simple majority of votes cast is sufficient. The Supervisory Board may at any time suspend (but not dismiss) a member of the Managing Board.

Conflicts of Interest, Loans or Similar Benefits

Resolutions to enter into transactions under which members of the Managing Board could receive a benefit from QIAGEN, and which are of material significance to QIAGEN and/or the relevant member, require the approval of the Supervisory Board. QIAGEN has not entered into any such transactions. No similar benefits were granted to members of the Managing Board. Additionally, the Managing Board members do not receive any benefits from third parties that were either promised or granted in view of their position on the Managing Board.

Further information on our Managing Directors can be found in Item 6 of this Annual Supervisory Board

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General

The Supervisory Board supervises the policies of the Managing Board, the general co and the business enterprises which we operate. The Supervisory Board assists the Ma relating to the business activities of QIAGEN. In 2016, the Supervisory Board had five the attendance of the Managing Board, while certain agenda items were discussed exc Board members. In discharging its duties, the Supervisory Board takes into account th and all parties involved in QIAGEN, including shareholders and other stakeholders. T for the quality of its own performance. In this respect, the Supervisory Board conduct Our Supervisory Board has specified matters requiring its approval, including decisio fundamentally change the company's assets, financial position or results of operations an Audit Committee, a Compensation Committee, a Selection and Appointment (Non Technology Committee from among its members and can appoint other committees a Board has approved charters pursuant to which each of the committees operates.

Composition and Appointment

The Supervisory Board consists of at least three members, or a larger number as deter of the Supervisory Board are appointed by the General Meeting upon the Joint Meetin for each vacancy. However, the General Meeting may at all times overrule the bindin resolution adopted by at least a two-thirds majority of the votes cast, if such majority share capital.

The Supervisory Board shall be composed in a way that enables it to carry out its duti act critically and independently of one another and of the Managing Board and any pa Supervisory Board has adopted a profile of its size and composition that takes into ac activities and the desired expertise and background of the members of the Supervisory Supervisory Board can be found on our website. The Supervisory Board has appointe has the duties assigned to him by the Articles of Association and the Dutch Code.

Members of the Supervisory Board are appointed annually for the period beginning o Meeting up to and including the date of the General Meeting held in the following ye may be suspended and dismissed by the General Meeting by a resolution adopted by a if such majority represents more than half of the issued share capital, unless the propo and the Supervisory Board in which case a simple majority of votes cast is sufficient.

Conflicts of Interest, Loans or Similar Benefits

Resolutions to enter into transactions under which members of the Supervisory Board QIAGEN, and which are of material significance to QIAGEN and/or the relevant men the approval of the Supervisory Board plenum. In 2016, neither QIAGEN nor its Sup into any such transactions. No credit, loans or similar benefits were granted to membe Additionally, the Supervisory Board Members did not receive any benefits from third granted in view of their position as members of the Supervisory Board.

Further information on our Supervisory Directors can be found in Item 6 of this Annu

Additional Information

Shareholders

Our shareholders exercise their voting rights through Annual and Extraordinary Gene General Meeting are adopted by an absolute majority of votes cast, unless a different required by Dutch law or the Articles of Association. Each common share confers the Furthermore, the Managing Board, or where appropriate, the Supervisory Board, shall parties in the financial markets with equal and simultaneous information about matter price.

QIAGEN is required to convene an Annual General Meeting in the Netherlands no la of each year. The agenda for the Annual General Meeting must contain certain matter Association and under Dutch law, including, among other things, the adoption of QIA

Additional Extraordinary General Meetings may be convened at any time by the Manager by one or more shareholders jointly representing at least 40% of QIAGEN's issued shares, or by the district court judge having applications for interim relief, to convene a General Meeting of the shareholders, who jointly represent at least 10% of QIAGEN's issued share capital.

propose items for the agenda of the General Meeting provided that they hold at least 3% of the shares. Proposals for agenda items for the General Meeting must be submitted at least 60 days before convening a General Meeting, accompanied by the agenda, shall be sent no later than 15 days before QIAGEN informs the General Meeting by means of explanatory notes to the agenda, and shall be relevant to the proposed resolutions.

Independence

Unlike the NASDAQ listing standards which require a majority of the Supervisory Board members to be independent, the Dutch Corporate Governance Code recommends that all Supervisory Board members, except one person, shall be independent within the meaning of its “best practice” provision. In any case, the requirement is more stringent, such as by requiring a longer “look back” period (five years) than in other cases, the NASDAQ rules are more stringent, such as a broader definition of disqualifying relationships. A majority of our Supervisory Board are “independent” under both the NASDAQ and Dutch Corporate Governance Code.

Independent Auditors

In accordance with the requirements of Dutch law, our independent registered public accountants prepare consolidated financial statements prepared in accordance with International Financial Reporting Standards. The Netherlands Authority for the Financial Markets (AFM), is appointed, and may be removed by the Supervisory Board. The Supervisory Board nominates a candidate for the appointment as external auditor, for which the Audit Committee and the Managing Board advise the Supervisory Board. At the Annual General Meeting, KPMG Accountants N.V. was appointed as external auditor for the Company for 2016 year. The consolidated financial statements prepared in accordance with International Financial Reporting Standards and filed with the AFM shall be approved and is further subject to the approval of the Supervisory Board at the meeting of the Supervisory Board at which the statutory financial statements prepared in accordance with International Financial Reporting Standards and filed with the AFM shall be approved and is further subject to the approval of the Supervisory Board at the meeting of the Supervisory Board at which the statutory financial statements are adopted and may be questioned. The external auditor's statement on the fairness of our annual accounts prepared in accordance with International Financial Reporting Standards. Following the appointment of KPMG Accountants N.V. for the audit of our statutory financial statements, KPMG AG Wirtschaftsprüfungsgesellschaft who audited the consolidated financial statements for the year ended December 31, 2016 contained in this annual report.

The remuneration of the external auditor, and instructions to the external auditor to prepare the consolidated financial statements shall be approved by the Supervisory Board on the recommendation of the Audit Committee and the Managing Board. At least once every four years, the Supervisory Board and the Audit Committee shall conduct an assessment of the functioning of the external auditor. The main conclusions of this assessment shall be presented to the General Meeting for the purposes of assessing the nomination for the appointment of the external auditor.

Whistleblower Policy and Code of Conduct

We have a formal Whistleblower Policy concerning the reporting of alleged irregularities of a legal, operational or financial nature. Furthermore, we have a published Code of Conduct that applies to all employees and rules of conduct. The Code of Conduct can be found on our website at www.qiagen.com.

Anti-Takeover Measures

In 2004, the Supervisory Board granted an option to the Dutch Foundation Stichting ICI to acquire preference shares from QIAGEN if (i) a person has acquired or expressed a desire to acquire more than 20% of our issued share capital, or (ii) a person has acquired or expressed a desire to acquire more than 20% of our issued share capital has been designated as a hostile person by our Supervisory Board. The option allows the Foundation to acquire preference shares equal to the number of our outstanding common shares at the time of exercise, less one share. When exercising the option and exercising its voting rights on the exercise of the option, the Foundation shall act in the interest of QIAGEN and the interests of our stakeholders. No preference shares are currently outstanding.

Dutch Corporate Governance Code--Comply or Explain

The corporate governance structure and compliance with the Dutch Code is the joint responsibility of the Board of Directors and the Supervisory Board. They are accountable for this responsibility to the General Meeting. The Board of Directors and the Supervisory Board have committed themselves to improve our corporate governance by measuring itself against international best practices and the Dutch Corporate Governance Code, amended on December 8, 2016, and can be found at www.commissiecorporategovernance.nl.

Non-application of a specific best practice provision is not in itself considered objectionable and will be justified because of particular circumstances relevant to a company. In accordance with our Annual Report the application of the Dutch Code's principles and best practice provisions

To the extent that we do not apply certain principles and best practice provisions, or do not apply them in the current or the subsequent year, we state the reasons.

We take a positive view of the Dutch Code and apply nearly all of the best practice provisions. We do not apply some provisions due to the international character of our business as well as the fact that the Commission that drafted the Dutch Code - that existing contractual agreements between the company and members of the Managing Board cannot be set aside at will.

The following provides an overview of exceptions that we have identified:

1. Best practice provision II.1.1 recommends that a management board member is appointed for a term of not more than four years. A member may be reappointed for a term of not more than four years at a time. Members of the Managing Board are appointed annually for a one-year period beginning on the day of the General Meeting up to and including the day of the General Meeting held in the following year.
2. Best practice provision II.2.4 recommends that the number of granted options shall be determined on the basis of challenging targets specified beforehand.

On June 25, 2014 the Annual General Meeting approved amendments to the remuneration policy ("Remuneration Policy") which state that grants of stock options shall no longer be made for use as special equity incentive rewards in certain situations. No stock options were granted to members of the Managing Board in 2016.

3. Best practice provision II.2.5 recommends that shares granted to management board members shall be retained for a period of at least five years or until at least at the end of the term of office. If the period is shorter. The number of shares to be granted shall be dependent on the achievement of challenging targets specified beforehand.

Pursuant to the Company's Remuneration Policy, long-term equity-based grants to management board members under the 2014 Plan primarily consist of an award of performance stock units, i.e. long-term equity-based grants upon the achievement of pre-defined performance goals. Grants of restricted stock units, which are no longer to be granted on a regular basis and shall be reserved for use as special equity incentive rewards in certain situations. Performance stock units and restricted stock units are basically structured to vest over a period of three years, 50% after five years and the remaining 10% after ten years. In 2015, the Managing Board elected to receive in lieu of their cash bonus the value earned in the form of restricted stock units respectively which vested over two years from the grant date.

4. Best practice provision II.2.8 recommends that the maximum remuneration in the event of termination of a management board member may not exceed one year's salary (the "fixed" remuneration component). If the salary would be manifestly unreasonable for a management board member who is dismissed, such board member shall be eligible for a severance pay not exceeding twice the annual salary. Our Managing Board members have entered into employment agreements with QIAGEN N.V. for which they hold managing positions. In case of termination of an agreement without cause, applicable law, the respective affiliate would remain obliged to compensate the Managing Board member for the term of the employment agreement. QIAGEN believes that these contractual arrangements are in line with the tenures of the Managing Board members.

5. Best practice provision III.3.5 recommends that a person may be appointed to the Supervisory Board for three 4-year terms.

Prof. Karobath has been a member of the Supervisory Board of QIAGEN N.V. since 2012. He has a profound scientific and industry experience from various management positions in the pharmaceutical industry. He has a unique knowledge about QIAGEN which is considered to be highly valuable. He strongly supports the reappointment Prof. Karobath beyond the 12-year term as recommended by the Dutch Code.

6. Best practice provision III.3.6 recommends that the supervisory board shall draw up a retirement schedule, avoid, as far as possible, a situation in which many supervisory board members retire at the same time. The schedule shall be made generally available and shall be posted on the company's website. The Supervisory Board follows the practice to discuss retirement plans of individual members of the Supervisory Board. QIAGEN believes that this practice provides more flexibility in retirement planning than a fixed retirement schedule.

7. Best practice provision III.7.1 recommends that a supervisory board member may not receive shares by way of remuneration.

QIAGEN has granted stock options to the members of the Supervisory Board as a remuneration for their services to the establishment. Since 2007, Supervisory Board members have also been granted restricted stock options. We consider a reasonable level of equity based compensation which we practice allows a positive attitude towards the duties of the Supervisory Board and that this practice is necessary to attract and retain qualified persons. As the granting of share-based compensation to Supervisory Board members is a common practice in the pharmaceutical industry,

Best practice provision IV.1.1 recommends that a general meeting of shareholders is held annually to consider the financial statements, the appointment and re-nominations of candidates for the management board and supervisory board, and to elect or re-elect members of the boards. The proposal requires a simple majority of votes of those in attendance, although the company may require a higher quorum for certain matters. If such quorum is not represented at the first meeting, a second meeting may be convened and if it achieves a one-third quorum, its decisions will be valid.

Our Articles of Association currently state that the General Meeting may at all times resolution adopted by at least a two-thirds majority of the votes cast, if such majority share capital. Although a deviation from provision IV.1.1 of the Dutch Code, the Sup Board hold the view that these provisions will enhance the continuity of QIAGEN's n NASDAO Exemptions

Exemptions from the NASDAQ corporate governance standards are available to foreign issuers when those standards are contrary to a law, rule or regulation of any public authority, or contrary to generally accepted business practices in the issuer's country of domicile. In connection with its public offering, NASDAQ granted QIAGEN exemptions from certain corporate governance provisions. The laws, rules, regulations or generally accepted business practices of The Netherlands and the exemptions followed by QIAGEN are described below:

QIAGEN is exempt from NASDAQ's quorum requirements applicable to meetings of the law of The Netherlands and generally accepted business practices in The Netherlands provide that there are no quorum requirements generally applicable to meetings of the QIAGEN is exempt from NASDAQ's requirements regarding the solicitation of proxies for meetings of the General Meeting. QIAGEN does furnish proxy statements and solicit proxies from shareholders. Dutch corporate law sets a mandatory (participation and voting) record at the twenty-eighth day prior to the day of the shareholders' meeting. Shareholders must attend and exercise their rights as shareholders at the General Meeting, regardless of QIAGEN is exempt from NASDAQ's requirements that shareholder approval be obtained for material amendments to, stock option or purchase plans and other equity compensation plans. Options or stock may be acquired by directors, officers, employees or consultants. QIAGEN is exempt from requirements that shareholder approval be obtained prior to certain issuances of stock occurring in connection with acquisitions of stock or assets of another company or issuance of stock at book or market value other than in a public offering. QIAGEN's Articles of Association require shareholder approval of the General Meeting prior to the establishment of a stock plan. The Articles of Association also grant the Supervisory Board general authority to issue shares without further approval of the General Meeting has granted the Supervisory Board general authority to issue up to a certain amount of stock without further approval of the General Meeting. QIAGEN plans to seek approval of the General Meeting for stock and stock issuances only where required under the law of The Netherlands or under the law of the United States.

Further Information

For additional information regarding our Boards, including the Audit and other Comm please refer to the discussion in Item 6 above.

Item 16H. Mine Safety Disclosure

Not applicable.

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PART III

Item 17. Financial Statements

See Item 18.

Item 18. Financial Statements

See pages F-1 through F-48 included herein.

(A) The following financial statements, together with the reports of KPMG and Ernst & Young, are included in this annual report:

<u>Report of Independent Registered Public Accounting Firm</u>	<u>F- 1</u>
<u>Report of Independent Registered Public Accounting Firm</u>	<u>F- 2</u>
<u>Report of Independent Registered Public Accounting Firm</u>	<u>F- 3</u>
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<u>Consolidated Statements of Income</u>	<u>F- 6</u>
<u>Consolidated Statements of Comprehensive Income (Loss)</u>	<u>F- 7</u>
<u>Consolidated Statements of Changes in Equity</u>	<u>F- 8</u>
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<u>Notes to Consolidated Financial Statements</u>	<u>F- 10</u>
<u>Schedule II—Valuation and Qualifying Accounts</u>	<u>S- 1</u>

Item 19. Exhibits

- *1.1 Articles of Association as confirmed by notarial deed as of January 24, 2017 (E
- 2.4 \$400 Million Note Purchase Agreement dated as of October 16, 2012 (filed as F
- 2.5 2019 Bonds Indenture dated March 19, 2014 (Filed as Exhibit 2.7) (2)
- 2.6 2021 Bonds Indenture dated March 19, 2014 (Filed as Exhibit 2.8) (2)
- 2.7 2019 Form of Warrant Confirmation dated March 12, 2014 (Filed as Exhibit 2.9
- 2.8 2021 Form of Warrant Confirmation dated March 12, 2014 (Filed as Exhibit 2.1
- 2.9 2019 Form of Bond Hedge Confirmation dated March 12, 2014 (Filed as Exhib
- 2.10 2021 Form of Bond Hedge Confirmation dated March 12, 2014 (Filed as Exhib
- 4.1 Lease Between QIAGEN GmbH and Gisantus Grundstuecksverwaltungsgesells
(the “Max-Volmer-Strasse 4 Lease”) (Filed as Exhibit 10.3) (3)
- 4.2 The Max-Volmer-Strasse 4 Lease Summary (Filed as Exhibit 10.3(a)) (3)
- 4.3 QIAGEN N.V. Amended and Restated 2005 Stock Plan (Filed as Exhibit 99.1)
- 4.4 QIAGEN N.V. 2014 Stock Plan (Filed as Exhibit 99.1) (5)
- *8.1 List of Subsidiaries
- *12.1 Certification under Section 302; Peer M. Schatz, Managing Director and Chief
- *12.2 Certification under Section 302; Roland Sackers, Managing Director and Chief
- *13.1 Certifications under Section 906; Peer M. Schatz, Managing Director and Chief
Sackers, Managing Director and Chief Financial Officer
- *15.1 Consent of Independent Registered Public Accounting Firm
- *15.2 Consent of Independent Registered Public Accounting Firm
- †*10XBRL Interactive Data File

*Filed herewith.

Pursuant to Rule 406(T) of Regulation S-T, the Interactive Data Files on Exhibit 101
registration statement or prospectus for purposes of Sections 11 or 12 of the Securities
not filed for purposes of Section 18 of the Securities and Exchange Act of 1934, as an
to liability under those sections.

- (1) Incorporated by reference to Form 20-F Annual Report of QIAGEN N.V. filed with
Commission on March 1, 2013.
- (2) Incorporated by reference to Form 20-F Annual Report of QIAGEN N.V. filed with
Commission on March 2, 2015.

- (3) Incorporated by reference to Form 20-F Annual Report of QIAGEN N.V. filed with the Commission on March 31, 2000.
- (4) Incorporated by reference to Registration Statement of QIAGEN N.V. on Form S-1 filed with the Exchange Commission on November 17, 2011.
- (5) Incorporated by reference to Registration Statement of QIAGEN N.V. on Form S-1 filed with the Exchange Commission on April 2, 2015.

SIGNATURES

The registrant hereby certifies that it meets all of the requirements for filing on Form authorized the undersigned to sign this annual report on its behalf.

QIAGEN N.V.

Dated: March 3, 2017

By: /s/ Peer M. Schatz

Peer M. Schatz, Chief Executive Officer

/s/ Roland Sackers

Roland Sackers, Chief Financial Officer

QIAGEN N.V. AND SUBSIDIARIES
INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The Supervisory Board of QIAGEN N.V.:

We have audited the accompanying consolidated balance sheets of QIAGEN N.V. and subsidiaries as of December 31, 2016 and 2015, and the related consolidated statements of income, comprehensive income, equity, and cash flows for each of the years in the two year period ended December 31, 2016. In addition to the consolidated financial statements, we also have audited the financial statement schedule of consolidated debt as of December 31, 2016. These consolidated financial statements and the financial statement schedule are the responsibility of management. Our responsibility is to express an opinion on these consolidated financial statements and the financial statement schedule based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Standards Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance that the consolidated financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence and amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles and significant estimates made by management, as well as evaluating the overall financial statement presentation. Our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of QIAGEN N.V. and subsidiaries as of December 31, 2016 and 2015, and the results of their operations and cash flows for each of the years in the two year period ended December 31, 2016, in accordance with accounting principles. Also in our opinion, the related financial statement schedule, when taken in conjunction with the consolidated financial statements taken as a whole, presents fairly, in all material respects, the information required.

As discussed in Note 1 to the consolidated financial statements, in 2016, the Company changed its method of accounting for share-based compensation from a straight-line attribution method for expense recognition to the accelerated attribution method. The Company applied this change in accounting principle retrospectively to 2015.

We also have audited, in accordance with the standards of the Public Company Accounting Standards Board (United States), QIAGEN N.V.'s internal control over financial reporting as of December 31, 2016, based on the Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Certified Public Accountants (COSO), and our report dated March 3, 2017 expressed an unqualified opinion on the Company's internal control over financial reporting.

/s/ KPMG AG Wirtschaftsprüfungsgesellschaft
Düsseldorf, Germany
March 3, 2017

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The Supervisory Board and Shareholders of QIAGEN N.V. and Subsidiaries

We have audited the accompanying consolidated statements of income, comprehensive income, consolidated statements of cash flows of QIAGEN N.V. and Subsidiaries for the year ended December 31, 2014. Our audit opinion is presented in the accompanying financial statement schedule listed in the Index at Item 18(A). These financial statements and schedule are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audits in accordance with the standards of the Public Company Accounting Standards Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance that the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles and significant estimates made by management, as well as evaluating the overall financial statement presentation. Our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material aspects, the financial position, results of their operations and their cash flows for the year ended December 31, 2014, in conformity with the applicable accounting principles. Also, in our opinion, the related financial statement schedule, when taken together with the financial statements taken as a whole, presents fairly in all material respects the information required by the Securities Exchange Act of 1934.

February 27, 2015

Except for Note 20 as to which the date is March 3, 2017

Ernst & Young GmbH
Wirtschaftsprüfungsgesellschaft
Düsseldorf, Germany

/s/ Hendrik Hollweg
Wirtschaftsprüfer
[German Public Auditor]

/s/ Tobias Schlebusch
Wirtschaftsprüfer
[German Public Auditor]

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The Supervisory Board of QIAGEN N.V.:

We have audited QIAGEN N.V.'s ("QIAGEN" or "the Company") internal control over financial reporting as of December 31, 2016, based on criteria established in Internal Control - Integrated Framework (2013) issued by the American Institute of Certified Public Accountants, the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying 'Report of Management on Internal Control over Financial Reporting'. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Standards Board (PCASB) (United States of America). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether internal control over financial reporting was maintained in all material respects. Our audit included understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and evaluating the design and operating effectiveness of internal control based on the assessed risk. We also performed such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with the authorization of management or directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Projections of any evaluation of effectiveness to future periods are subject to the risk that conditions will change, or that the degree of compliance with the policies or procedures will decline over time.

In our opinion, QIAGEN N.V. maintained, in all material respects, effective internal control over financial reporting as of December 31, 2016, based on criteria established in Internal Control - Integrated Framework issued by the American Institute of Certified Public Accountants, the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

We also have audited, in accordance with the standards of the Public Company Accounting Standards Board (PCASB) (United States of America), the consolidated balance sheets of QIAGEN N.V. and subsidiaries as of December 31, 2016 and 2015, the related consolidated statements of income, comprehensive income (loss), changes in equity, and cash flows for the years in the two-year period ended December 31, 2016, and the related financial statement schedule as listed in Item 18 (A), and our report dated March 3, 2017 expressed an unqualified opinion on those consolidated financial statements.

/s/ KPMG AG Wirtschaftsprüfungsgesellschaft
Düsseldorf, Germany
March 3, 2017

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QIAGEN N.V. AND SUBSIDIARIES
CONSOLIDATED BALANCE SHEETS
(in thousands)

Assets

Current assets:

Cash and cash equivalents

Short-term investments

Accounts receivable, net of allowance for doubtful accounts of \$7,614 and \$7,255 in 2016 and 2015, respectively

Income taxes receivable

Inventories, net

Prepaid expenses and other current assets

Deferred income taxes

Total current assets

Long-term assets:

Property, plant and equipment, net of accumulated depreciation of \$451,160 and \$409,634 in 2016 and 2015, respectively

Goodwill

Intangible assets, net of accumulated amortization of \$948,072 and \$827,084 in 2016 and 2015, respectively

Deferred income taxes

Other long-term assets (of which \$13,067 and \$7,472 in 2016 and 2015 due from related parties, respectively)

Total long-term assets

Total assets

The accompanying notes are an integral part of these consolidated financial statements

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QIAGEN N.V. AND SUBSIDIARIES
CONSOLIDATED BALANCE SHEETS
(in thousands, except par value)

Liabilities and equity

Current liabilities:

Accounts payable

Accrued and other current liabilities (of which \$3,926 in 2016 due to related parties)

Income taxes payable

Deferred income taxes

Total current liabilities

Long-term liabilities:

Long-term debt, net of current portion

Deferred income taxes

Other long-term liabilities (of which \$5,889 in 2016 due to related parties)

Total long-term liabilities

Commitments and contingencies

Equity:

Preference shares, 0.01 EUR par value, authorized—450,000 shares, no shares issued outstanding

Financing preference shares, 0.01 EUR par value, authorized—40,000 shares, no shares issued and outstanding

Common Shares, 0.01 EUR par value, authorized—410,000 shares, issued — 239,700 shares in 2016 and 2015

Additional paid-in capital

Retained earnings

Accumulated other comprehensive loss

Less treasury shares, at cost— 5,147 and 6,702 shares in 2016 and 2015, respectively

Equity attributable to the owners of QIAGEN N.V.

Noncontrolling interest

Total equity

Total liabilities and equity

The accompanying notes are an integral part of these consolidated financial statements

QIAGEN N.V. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF INCOME
(in thousands, except per share data)

	Note	
Net sales	(3, 4)	\$ 2,488
Cost of sales		424
Gross profit		808
Operating expenses:		
Research and development	(3)	1,444
Sales and marketing		411
General and administrative, integration and other	(3)	1,111
Acquisition-related intangible amortization		322
Total operating expenses		7,298
Income from operations		908
Other income (expense):		
Interest income		60
Interest expense		(10)
Other expense, net	(6)	(10)
Total other expense, net		(10)
Income before income taxes		508
Income taxes	(3, 16)	(8)
Net income		800
Net (loss) income attributable to noncontrolling interest		(10)
Net income attributable to the owners of QIAGEN N.V.		\$ 790
Basic net income per common share attributable to the owners of QIAGEN N.V.		\$ 1.00
Diluted net income per common share attributable to the owners of QIAGEN N.V.		\$ 0.95
Weighted-average common shares outstanding		
Basic	(18)	200
Diluted	(18)	200

The accompanying notes are an integral part of these consolidated financial statements.

QIAGEN N.V. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)
(in thousands)

Net income
Other comprehensive income (loss) to be reclassified to profit or loss in subsequent periods:
(Losses) Gains on cash flow hedges, before tax
Reclassification adjustments on cash flow hedges, before tax
Cash flow hedges, before tax
(Losses) gains on marketable securities, before tax
Gains (losses) on pensions, before tax
Foreign currency translation adjustments, before tax
Other comprehensive loss, before tax
Income tax relating to components of other comprehensive loss
Total other comprehensive loss, after tax
Comprehensive income (loss)
Comprehensive (income) loss attributable to noncontrolling interest
Comprehensive income (loss) attributable to the owners of QIAGEN N.V.

The accompanying notes are an integral part of these consolidated financial statements

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QIAGEN N.V. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in thousands)	Note	Common Shares	Additional Paid-In Capital	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Treasury Shares
		Shares	Amount			Shares
BALANCE AT DECEMBER 31, 2013		239,707	\$2,812	\$1,807,002	\$1,033,343	\$(4,192) (5,817
Acquisition of QIAGEN Marseille S.A. shares from noncontrolling interests	(5)	—	—	—	—	—
Net income		—	—	—	116,365	—
Issuance of warrants	(17)	—	—	68,900	—	—
Unrealized loss, net on pension	(17)	—	—	—	(481)	—
Translation adjustment, net	(17)	—	—	—	(130,062)	—
Purchase of treasury shares	(17)	—	—	—	—	(5,558
Issuance of common shares in connection with warrant exercise	(15)	—	—	—	(12,115)	— 1,373
Common stock issuances under employee stock plans	(20)	—	—	—	(33,264)	— 2,318
Excess tax benefit of employee stock plans		—	—	1,596	—	—
Share-based compensation	(20)	—	—	41,313	—	—
Proceeds from subscription receivables		—	—	536	—	—
	(15)	—	—	(67,943)	—	—

Redemption of subscription receivables							
BALANCE							
AT							
DECEMBER	239,707	\$2,812	\$1,851,404	\$1,104,329	\$(134,735)	(7,684	
31, 2014							
Acquisition of QIAGEN							
Marseille S.A.	—	—	—	—	—	—	
shares from							
noncontrolling							
interests							
Net income	—	—	—	130,148	—	—	
Unrealized							
loss, net on	(17)	—	—	—	(1,266)	—
pension							
Unrealized							
gain, net on	(13)	—	—	—	4,003	—	
hedging							
contracts							
Realized gain,							
net on hedging	(13)	—	—	—	(3,955)	—
contracts							
Unrealized							
gain, net on	(10)	—	—	—	1,215	—	
marketable							
securities							
Translation	(17)	—	—	—	(124,418)	—
adjustment, net							
Purchase of	(17)	—	—	—	—		(842
treasury shares							
Issuance of							
common							
shares in	(20)	—	—	(25,280)	—	1,824
connection							
with stock plan							
Excess tax							
benefit of	—	—	3,328	—	—	—	
employee							
stock plans							
Share-based	(20)	—	23,761	—	—	—	
compensation							
Proceeds from	—	—	97	—	—	—	
subscription							
receivables							
Redemption of	(15)	—	(112,995)	—	—	—
subscription							
receivables							
BALANCE	239,707	\$2,812	\$1,765,595	\$1,209,197	\$(259,156)	(6,702	
AT							

DECEMBER

31, 2015

Acquisition of

QIAGEN

Marseille S.A.

shares from

noncontrolling

interests

Acquisition of

Exiqon A/S

Acquisition of

Exiqon A/S

shares from

noncontrolling

interests

Net income

Unrealized

gain, net on

pension

Unrealized

loss, net on

hedging

contracts

Realized gain,

net on hedging

contracts

Unrealized

loss, net on

marketable

securities

Translation

adjustment, net

Issuance of

common

shares in

connection

with stock plan

Excess tax

benefit of

employee

stock plans

Share-based

compensation

BALANCE

AT

DECEMBER

31, 2016

The accompanying notes are an integral part of these consolidated financial statements

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QIAGEN N.V. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF CASH FLOWS

(in thousands)

Cash flows from operating activities:

Net income

Adjustments to reconcile net income to net cash provided by operating activities,
net of effects of businesses acquired:

Depreciation and amortization

Non-cash acquisition, impairment and restructuring related costs

Amortization of debt discount and issuance costs

Share-based compensation expense

Excess tax benefits from share-based compensation

Deferred income taxes

Loss on early redemption of debt

(Gain) loss on marketable securities

Changes in fair value of contingent consideration

Other items, net including fair value changes in derivatives

Net changes in operating assets and liabilities:

Accounts receivable

Inventories

Prepaid expenses and other current assets

Other long-term assets

Accounts payable

Accrued and other current liabilities

Income taxes

Other long-term liabilities

Net cash provided by operating activities

Cash flows from investing activities:

Purchases of property, plant and equipment

Proceeds from sale of equipment

Purchases of intangible assets

Purchases of investments

Purchases of short-term investments

Proceeds from sales of short-term investments

Cash paid for acquisitions, net of cash acquired

Other investing activities

Net cash used in investing activities

Cash flows from financing activities:

Purchase of call option related to cash convertible notes

Proceeds from issuance of warrants, net of issuance costs

Net proceeds from issuance of cash convertible notes and cash paid for issuance
costs

Repayment of long-term debt

Principal payments on capital leases

Proceeds from subscription receivables

Excess tax benefits from share-based compensation

Proceeds from issuance of common shares

Purchase of treasury shares

Other financing activities

Net cash used in financing activities

Effect of exchange rate changes on cash and cash equivalents

Net increase (decrease) in cash and cash equivalents

Cash and cash equivalents, beginning of period

Cash and cash equivalents, end of period

Supplemental cash flow disclosures:

Cash paid for interest

Cash paid for income taxes

Supplemental disclosure of non-cash investing and financing activities:

Equipment purchased through capital lease

Intangible assets acquired in non-monetary exchange

The accompanying notes are an integral part of these consolidated financial statements

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QIAGEN N.V. AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
DECEMBER 31, 2016

1. Corporate Information and Basis of Presentation

Corporate Information

QIAGEN N.V. is a public limited liability company ('naamloze vennootschap') under Dutch law, registered at the Chamber of Commerce (KvK) number 09687404, located at Hulssterweg 82, Venlo, The Netherlands. QIAGEN N.V., a Netherlands holding company (Netherlands Holding Company) is the leading global provider of Sample to Insight solutions to transform biological samples into molecular insights. Our sample technologies isolate and process DNA, RNA and proteins from various starting materials. Assay technologies make these biomolecules visible and ready for analysis. Bioinformatics knowledge bases interpret data to report relevant, actionable insights. Automation solves complex and cost-effective molecular testing workflows. We provide these workflows to four main markets: Diagnostics (human healthcare), Applied Testing (forensics, veterinary testing and food safety), Industrial and biotechnology companies) and Academia (life sciences research). We market our

Basis of Presentation

The accompanying consolidated financial statements were prepared in accordance with accounting principles (GAAP) and all amounts are presented in U.S. dollars rounded to the nearest dollar indicated. The consolidated financial statements have been prepared on a historical cost basis for all instruments, contingent consideration and available-for-sale financial instruments that were not measured at fair value. On June 28, 2016, we acquired Exiqon A/S, located in Vedbaek, Denmark and on November 1, 2015, we acquired BIO Laboratories, Inc., located in Carlsbad, California. On December 16, 2014, we acquired BioCryst, Inc. in Beverly, Massachusetts and on April 3, 2014, we acquired BIOBASE GmbH, located in Germany. Accordingly, at the acquisition dates, all of the assets acquired and liabilities assumed were measured at fair value and our consolidated results of operations include the operating results from the operations since the acquisition dates.

Certain prior year amounts have been revised to reflect a change in attribution methodology, as discussed in the Revision of Previously Issued Financial Statements for Change in Accounting Principle. See Note 20 - Share-Based Compensation. Additionally, for the year ended December 31, 2015, certain amounts have been reclassified upon adoption of ASU 2015-03 as further discussed within Note 20. See Accounting and Reporting Principles and Policies for further discussion.

2. Effects of New Accounting Pronouncements

Adoption of New Accounting Standards

The following new FASB Accounting Standards Updates (ASU) were effective for the ASU 2015-02, Consolidation (Topic 810): Amendments to the Consolidation Analysis consolidation under the variable interest model and the voting model. ASU 2015-02 became effective for our consolidated financial statements beginning in the first quarter of 2016. The adoption did not have an impact on our consolidated financial statements.

ASU 2015-03, Interest - Imputation of Interest (Subtopic 835-30): Simplifying the Presentation of Debt Issuance Costs requires that debt issuance costs related to a recognized debt liability be presented in the balance sheet as a direct deduction from the carrying amount of that debt liability, rather than as a separate asset. ASU 2015-03 does not address presentation of debt issuance costs related to line-of-credit arrangements. The FASB issued Accounting Standards Update No. 2015-03, Interest - Imputation of Interest (Subtopic 835-30): Presentation and Subsequent Measurement of Debt Issuance Costs Associated with Line-of-Credit Arrangements - Amendments to SEC Paragraphs Pursuant to Staff Accounting Bulletin No. 118, 2015 EITF Meeting. This ASU adds SEC paragraphs pursuant to the SEC Staff Accounting Bulletin No. 118 Emerging Issues Task Force meeting about the presentation and subsequent measurement of debt issuance costs associated with line-of-credit arrangements. Given the absence of authoritative guidance within GAAP related to line-of-credit arrangements, the SEC staff indicated that it would not object to the presentation of debt issuance costs as an asset and subsequently amortizing the deferred debt issuance costs over the term of the debt.

line-of-credit arrangement, regardless of whether there are any outstanding borrowings. ASU 2015-03 became effective for us beginning in the first quarter of 2016 and was applied wherein the balance sheet of each period presented is adjusted to reflect the period-specific guidance. As of December

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31, 2015, the effect of the change in balance sheet presentation was a reduction in pre of \$0.2 million and a reduction in other long-term assets of \$10.3 million. These amor long-term debt liability.

ASU 2015-05, Intangibles - Goodwill and Other - Internal-Use Software (Subtopic 350-40): Paid in a Cloud Computing Arrangement provides guidance to help entities determine if an arrangement contains a software license that should be accounted for as internal-use software. ASU 2015-05 became effective for our financial statements beginning in the first quarter of 2016. The adoption had no material impact on our consolidated financial statements.

ASU 2015-16, Business Combinations (Topic 805): Simplifying the Accounting for Business Combinations simplifies the accounting for adjustments made to provisional amounts recognized in business combinations. The amendments eliminate the requirement to retrospectively account for those adjustments. An acquirer recognizes adjustments to provisional amounts that are identified during the measurement period in the period in which the adjustment amounts are determined. The amendments require that the adjustments be recorded in the period's financial statements, the effect on earnings of changes in depreciation, amortization, or depletion expense, as a result of the change to the provisional amounts, calculated as if the accounting had been that way from the acquisition date. The amendments became effective for our financial statements beginning in the first quarter of 2016. The adoption had no material impact on our consolidated financial statements.

ASU 2015-17, Income Taxes (Topic 740): Balance Sheet Classification of Deferred Tax Assets and Liabilities classified on organizations' balance sheets. The ASU eliminates the requirement for organizations to classify deferred tax assets and liabilities as current and noncurrent in a classified balance sheet. Instead, organizations are required to classify all deferred tax assets and liabilities as noncurrent. We elected to adopt the amendments prospectively in advance of the timeline in which we were required to adopt the amendments. The adoption for the period has not been retrospectively adjusted. The adoption did not have a material impact on our consolidated financial statements.

New Accounting Standards Not Yet Adopted

The following new FASB Accounting Standards Updates, which are not yet adopted, are expected to be adopted in the following effective dates:

First Quarter of 2017

ASU 2015-11, Inventory (Topic 330): Simplifying the Measurement of Inventory requires that inventory measured using first-in, first out (FIFO) or average cost, to be measured at the lower of cost or net realizable value. Net realizable value is the estimated selling price in the ordinary course of business, less estimated costs of completion, disposal, and transportation. ASU 2015-11 became effective for us beginning in the first quarter of 2017. The adoption had no material impact on our consolidated financial statements.

ASU 2016-07, Investments - Equity Method and Joint Ventures (Topic 323): Simplifying the Equity Method of Accounting eliminates the requirement to retroactively adopt the equity method of accounting if an investment qualifies for use of the equity method as a result of an increase in the level of ownership. The new guidance became effective for us beginning on January 1, 2017 with no impact on our consolidated financial statements.

ASU 2016-09, Compensation - Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting is intended to simplify several aspects of the accounting for share-based payment transactions, including the income tax consequences, classification of awards as either equity or liabilities, and classification of certain awards as equity or liabilities. The new guidance became effective for us beginning January 1, 2017. The impact of the adoption is limited to the recording of any windfall or shortfall benefit directly to the tax provision in our statement of cash flows, which we intend to adopt prospectively. We will continue to record compensation award forfeitures in determining the amount of compensation cost to be recognized. The adoption will result in an increase to our cash flows from operating activities and a decrease to cash flows from financing activities. Upon adoption, we expect volatility in our effective tax rate as any windfall or shortfall tax benefit will be recorded directly into our results of operations.

First Quarter of 2018

ASU 2014-09, Revenue from Contracts with Customers (Topic 606) affects any entity that enters into contracts with customers to transfer goods or services or enters into contracts for the transfer of nonfinancial assets that are within the scope of other standards (e.g., insurance contracts or lease contracts). In June 2015, the FASB issued Accounting Standards Update No. 2015-14 (ASU 2015-14), Revenue from Contracts with Customers, which is effective at the end of the Effective Date which defers the effective date of ASU 2014-09 to interim and annual periods beginning after December 15, 2017. The FASB has continued to issue accounting standards updates and implementation guidance related to ASU 2014-09.

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to Revenue from Contracts with Customers, including ASU 2016-08 Revenue from Contracts with Customers: Principal versus Agent Considerations, ASU 2016-10 Revenue from Contracts with Customers: Identifying the Principal and the Agent, and ASU 2016-12 Revenue from Contracts with Customers: Narrow-Scope Improvements and Amendments, and ASU 2017-05 Revenue from Contracts with Customers: Certain Practical Expedients. An entity should apply the amendments either retrospectively to each prior reporting period or prospectively. We have elected the retrospective method of adoption. We have not experienced significant issues in our implementation of this ASU. As of the effective date, we currently do not expect the adoption to have a material impact on our existing revenue recognition of revenue from product sales. However, we continue to evaluate the impact of the ASU on our revenue recognition connection with collaboration and license agreements and other revenue sources. We have not yet determined the method of adoption, but we expect to adopt the new standard using the modified retrospective method. We have not yet determined the impact on retained earnings for the cumulative effect of the change.

ASU 2016-01, Financial Instruments - Overall (Subtopic 825-10): Recognition and Measurement of Financial Liabilities will impact certain aspects of recognition, measurement, presentation, and disclosure of certain financial instruments. The new guidance makes targeted improvements to existing U.S. GAAP guidance regarding the measurement of equity investments (except those accounted for under the equity method of accounting or consolidated with the investor) to be measured at fair value with changes in fair value recognized in earnings. The guidance also requires public business entities to use the exit price notion when measuring the fair value of financial instruments for disclosure purposes;

requiring separate presentation of financial assets and financial liabilities by measure of asset (i.e., securities or loans and receivables) on the balance sheet or the accompanying

- eliminating the requirement to disclose the fair value of financial instruments organizations that are not public business entities;

eliminating the requirement for public business entities to disclose the method(s) and estimate the fair value that is required to be disclosed for financial instruments measured at fair value; and

requiring a reporting organization to present separately in other comprehensive income the change in the fair value of a liability resulting from a change in the instrument-specific credit risk (ASC 825-20-35-1). If a reporting organization has elected to measure the liability at fair value in accordance with the fair value option, the reporting organization should not present the change in the fair value of the liability resulting from a change in the instrument-specific credit risk separately in other comprehensive income.

The amendments will become effective for our financial statements beginning in the first quarter of 2011. The implementation of the amendments is expected to increase the volatility of net income. The impact of the amendments will be dependent upon the significance of the equity investments at the time of adoption. If the Company has a net unrealized \$0.2 million loss, net of tax, from equity investments recorded in equity at the time of adoption, such gains or losses will be recognized in net income.

ASU No. 2016-15, Statement of Cash Flows (Topic 320): Classification of Certain Cash Receipts and Cash Payments (a consensus of the FASB Emerging Issues Task Force), addresses eight classification issues related to cash flows:

- debt prepayment or debt extinguishment costs;
- settlement of zero-coupon bonds;
- contingent consideration payments made after a business combination;
- proceeds from the settlement of insurance claims;
- proceeds from the settlement of corporate-owned life insurance policies, including buy-sell agreements, regardless of whether the settlement is considered a dividend, a redemption, or a liquidating distribution;
- distributions received from equity method investees;
- beneficial interests in securitization transactions; and
- separately identifiable cash flows and application of the predominance principle.

ASU 2016-15 will become effective for us for annual and interim periods in fiscal year 2018. Early adoption is permitted, including adoption in an interim period. We will be required to use the retrospective transition method to each period presented other than for issues where a prospective transition method is required, in which case we will be permitted to apply the amendments for those issues prospectively. The new guidance will become effective for us on January 1, 2018. We are currently evaluating the impact the adoption of ASU 2016-15 on our consolidated financial statements.

ASU 2016-16, Income Taxes (Topic 740): Intra-Entity Transfers of Assets Other Than Investments: This update provides guidance on accounting for the income tax consequences of intra-entity transfers of assets other than investments. It requires an entity to recognize the income tax consequences of an intra-entity transfer of an asset when the transfer occurs. The amendments in this update should be applied on a modified retrospective basis, with a cumulative-effect adjustment directly to retained earnings as of the beginning of the period of adoption. The update is effective for annual periods beginning after December 15, 2017, and interim periods within those periods. Early adoption is permitted, including adoption in an interim period. We are currently evaluating the impact the adoption of this standard will have on our financial position and results of operations.

ASU 2016-18, Statement of Cash Flows (Topic 320): Restricted Cash, requires entities to present cash, cash equivalents, restricted cash and restricted cash equivalents in the statement of cash flows. The amendments require no longer present transfers between cash and cash equivalents and restricted cash and restricted cash equivalents in the statement of cash flows. The amendments in this update should be applied using a retrospective basis, with a cumulative-effect adjustment directly to retained earnings as of the beginning of the period of adoption. This update is effective for annual periods beginning after December 15, 2017, and interim periods within those periods. Early adoption is permitted, including adoption in an interim period. We are currently evaluating the impact the adoption of this new standard will have on our financial position and results of operations.

ASU 2017-01, Business Combinations (Topic 805): Clarifying the Definition of a Business, provides a robust framework to use in determining when a set of assets and activities is a business. The amendments should be applied prospectively on or after the effective date. This update is effective for annual periods beginning after December 15, 2017, and interim periods within those periods. Early adoption is permitted, including adoption in an interim period. The amendments apply to transactions occurring before the issuance date or effective date and only when the transaction is included in the financial statements issued or made available for issuance financial statements. We are currently evaluating the impact the adoption of this standard will have on our financial position and results of operations.

First Quarter of 2019

ASU 2016-02, Leases (Topic 842) aims to increase transparency and comparability among lessees by requiring lessees to recognize lease assets and lease liabilities on the balance sheet and disclosing key information about lease arrangements. ASU 2016-02 will become effective for us beginning in the first quarter of 2019 and requires lessees to recognize a lease liability and a lease asset for leases that exist or are entered into after the beginning of the earliest comparative period presented. We do not plan to early adopt this standard and we anticipate that the adoption of this standard will require changes to our accounting systems and processes. We expect this standard to increase total assets and total liabilities. We are currently evaluating the potential size of the impact that ASU 2016-02 may have on our consolidated financial statements.

First Quarter of 2020

ASU 2016-13, Financial Instruments—Credit Losses (Topic 326): Measurement of Credit Losses, provides financial statement users with more decision-useful information about the expected credit losses on financial instruments and other commitments to extend credit held by a reporting entity at each reporting date. The amendments, effective for annual periods beginning after December 15, 2019, and interim periods within those periods, require the use of an expected credit loss methodology that reflects expected credit losses and requires consideration of a broader range of information to inform credit loss estimates. The new guidance will become effective for us on January 1, 2020. We are currently evaluating the potential impact ASU 2016-13 may have on our consolidated financial statements.

ASU 2017-04, Intangibles—Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment, simplifies the methodology for the goodwill impairment test. A goodwill impairment will now be the amount by which the carrying amount of goodwill exceeds its fair value, not to exceed the carrying amount of goodwill. ASU 2017-04 is effective for annual periods beginning January 1, 2020 and early adoption is permitted. The new guidance is required to be applied on a prospective basis. We are currently evaluating the impact the adoption of this new standard will have on our consolidated financial statements.

results of operations.

3. Summary of Significant Accounting Policies and Critical Accounting Estimates
Principles of Consolidation

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The consolidated financial statements include the accounts of QIAGEN N.V. and its subsidiaries. Significant intercompany accounts and transactions have been eliminated. Investment in-substance common stock of companies where we exercise significant influence over operations but do not have control, and where we are not the primary beneficiary, are accounted for using the equity method. When there is a portion of equity in an acquired subsidiary accounted for under the cost method. When there is a portion of equity in an acquired subsidiary accounted for under the cost method, we record the fair value of the noncontrolling interests at the acquisition date. Subsequent changes in the Company's ownership interest while the Company retains its ownership interest in the subsidiary are accounted for as equity transactions.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, revenues and expenses, and certain disclosures of contingencies at the date of the financial statements as well as the reported amounts of assets and liabilities at the end of the reporting period. Actual results could differ from those estimates.

Concentrations of Risk

We buy materials for products from many suppliers, and are not dependent on any one supplier for our business as a whole. However, key components of certain products, including certain chemicals, are available only from a single source. If supplies from these vendors were to be interrupted for any reason, we may not be able to obtain these materials timely or in sufficient quantities to meet our demand, and sales levels could be negatively affected. Additionally, our customers include research and development budgets of these researchers and their organizations for applications in various fields, which could have a significant effect on the demand for our products.

The financial instruments used in managing our foreign currency, equity and interest rate risk are subject to the risk in that the counterparties may be unable to meet the terms of the agreements. We attempt to mitigate this risk by entering the counterparties to a diverse group of highly-rated international financial institutions. Credit risk in these instruments incorporate the non-performance risk by using market pricing for credit risk. We do not believe that any counterparties will default on their obligations and therefore do not expect any material loss in the event of a counterparty default. In order to minimize our exposure with any single counterparty, we enter into agreements which allow us to manage the exposure with the respective counterparty. Other financial instruments that potentially subject us to concentrations of credit risk include cash, short-term investments, and accounts receivable. We attempt to minimize the risks related to these short-term investments by dealing with highly-rated financial institutions and investing in high-quality financial instruments. We have established guidelines related to credit quality and maturity to maintain safety and liquidity. Concentration of credit risk with respect to accounts receivable is mitigated by our diverse customer base, which is dispersed over different geographic areas. Allowance for doubtful accounts and losses and such losses have historically been within expected ranges.

Foreign Currency Translation

Our reporting currency is the U.S. dollar and our subsidiaries' functional currencies are the currencies of their respective countries in which they are headquartered. All amounts in the financial statements denominated in a currency is not the U.S. dollar are translated into U.S. dollar equivalents at exchange rates in effect at the end of liabilities at period-end rates, (2) income statement accounts at average exchange rates in effect during the period, and equity at historical rates. Translation gains or losses are recorded in equity, and transaction gains or losses on net income as a component of other expense, net. Realized gains or losses on the value of foreign currency hedge the exchange rate exposure of receivables and payables are also included in other expense, net. The net (loss) gain on foreign currency transactions in 2016 was less than \$0.5 million, and \$1.9 million, respectively, and is included in other expense, net.

The exchange rates of key currencies were as follows:

	Closing rate at December 31,		Annual average rate		
(US\$ equivalent for one)	2016	2015	2016	2015	2014
Euro (EUR)	1.0541	1.0887	1.1068	1.1100	1.3287
Pound Sterling (GBP)	1.2312	1.4833	1.3560	1.5286	1.6474
Swiss Franc (CHF)	0.9816	1.0048	1.0153	1.0406	1.0938
Australian Dollar (AUD)	0.7222	0.7308	0.7439	0.7522	0.9025
Canadian Dollar (CAD)	0.7430	0.7202	0.7552	0.7836	0.9059
Japanese Yen (JPY)	0.0085	0.0083	0.0092	0.0083	0.0095
Chinese Yuan (CNY)	0.1440	0.1542	0.1506	0.1592	0.1623

Segment Information

We determined that we operate as one operating segment in accordance with the Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) Topic 280, Segment Reporting. Our Chief Operating Decision Maker (CODM) makes decisions based on the Company as a whole. In addition, we have a variety of types of products and services which derive revenues and consistent product margins. We report our results of operations as one reporting unit.

Revenue Recognition

Our revenues are reported net of sales and value added taxes, discounts and sales allowances. Revenues are derived primarily from the sale of consumable and instrumentation products, and to a much lesser extent, from the sale of property and technology. We recognize revenue when four basic criteria are met: (1) the revenue is measurable; (2) delivery has occurred or services have been rendered; (3) the fee is fixed or determinable; and (4) collectability is reasonably assured.

Consumable and Related Products: In the last three years, revenue from consumable products has accounted for approximately 79%-80% of our net sales and is generally recognized upon transfer of ownership to the customer on the terms of the sale. We maintain a small amount, on average less than \$2.0 million in total, of consumable products in inventory at various locations. Revenues for the consumable products which are consigned in this manner are recognized when the product is sold. Generally allow returns of consumable products if the product is returned in a timely manner. Allowances for returns are provided for based upon the historical pattern of returns and other factors that impact the risk of returns.

Revenues from related products include software-as-a-service (SaaS), license fees, intellectual property sales, royalties and milestone payments and over the last three years has accounted for approximately 15% of net sales. Revenue from SaaS arrangements has increased following our 2013 acquisition of InVivoMetric. Revenue is recognized over the duration of the agreement unless the terms of the agreement indicate that revenue is recognized at a point in time, for example based on usage. License fees from research collaborations include access rights. Non-refundable, up-front payments received in connection with collaboration agreements are generally deferred and recognized on a straight-line basis over the contract term or the duration of the continuing obligation. Revenue from intellectual property and patent sales is recognized at the time of sale, or over the contract period when licensed. Payments for milestones, generally based on achievement of specific and at-risk performance criteria, are recognized in full at such time as the specified milestones are achieved. In accordance with the terms of the agreement. Royalties from licensees are based on reported sales of the licensed product and are calculated based on contract terms when reported sales are reliably measurable, fees are determinable and collectability is reasonably assured.

Instrumentation: Revenue from instrumentation includes the instrumentation equipment sales and the sale of instrumentation services, such as extended warranty services or product maintenance services. Revenue from instrumentation has accounted for approximately 12%-13% of net sales. Revenue from instrumentation is recognized when ownership passes to the customer, upon either shipment or written customer acceptance after satisfactory testing. Revenue is recognized when the requirements are met.

We offer our customers access to our instrumentation via reagent rental agreements with our customers without requiring them to purchase the equipment. Instead, we recover the cost of the equipment in the amount charged for consumable products. The instruments placed with customers

are depreciated and charged to cost of sales on a straight-line basis over the estimated years. The costs to maintain these instruments in the field are charged to cost of sales. The cost of reagent rental agreements is allocated to the elements within the arrangement (the lease and the services) in accordance with ASC 605-25, Revenue Recognition—Multiple-Element Arrangements, as the unit of accounting as appropriate.

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We have contracts with multiple elements which include instrumentation equipment, agreement or sold directly, together with other elements such as installation, training, maintenance contracts or consumable products. These contracts are accounted for under Recognition—Multiple-Element Arrangements. Multiple-element arrangements are a more than one unit of accounting. In order for a deliverable to qualify as a separate unit, the following criteria must be met:

• The delivered items have value to the client on a stand-alone basis;

• If the arrangement includes a general right of return relative to the delivered item, delivery or performance of the undelivered item or items is considered probable and substantially in the control of the company. If these criteria are met, Arrangement consideration is allocated at the inception of the arrangement to all deliverables based on their relative selling price. When applying the relative selling price method, the selling price for each deliverable is based on vendor-specific objective evidence (VSOE) of selling price, if it exists; or otherwise (if VSOE does not exist), the best estimate of selling price. If neither VSOE nor third-party evidence of selling price exists for a deliverable, then the best estimate of selling price of the deliverable is used. The arrangement consideration is allocated to the separate units of accounting based on their relative fair value. If these criteria are not met, deliverables included in an arrangement are accounted for as a single unit and accounting and revenues and costs are deferred until the period or periods in which the deliverable is sold or performed. We have evaluated the deliverables in our multiple-element arrangements and concluded that the following deliverables are accounted for separately because the delivered item or items have value to the customer on a stand-alone basis. If the arrangement includes a general right of return relative to the delivered item(s), delivery or performance of the undelivered item or items is considered probable and substantially in our control. Revenues from installation and training are recognized when completed, based on VSOE, which is determined by reference to the price customers pay for these services separately. Revenues from extended warranty services or product maintenance contracts are recognized on a straight-line basis over the term of the contract, typically one year. VSOE of fair value of extended warranty services or product maintenance is determined based on the price charged for the maintenance and support services. Revenues from the instrumentation equipment and consumable products are recognized when the product is sold or when no further performance obligations. VSOE of fair value of instrumentation equipment and consumable products is determined based on the price charged for the instrument and consumables when sold separately. Rental arrangements include termination provisions for breach of contract. However, these provisions do not have a significant impact on recognized revenues. Our other arrangements do not include any provisions for termination.

Warranty

We provide warranties on our products against defects in materials and workmanship. The liability for estimated future warranty costs is recorded in cost of sales at the time product revenue is recognized. Warranty obligations are included in accrued and other current liabilities in the accompanying balance sheet. Changes in the carrying amount of warranty obligations are as follows:

(in thousands)	Total
BALANCE AT DECEMBER 31, 2014	\$3,279
Provision charged to cost of sales	2,202
Usage	(2,569)
Adjustments to previously provided warranties, net	(91)
Currency translation	(184)
BALANCE AT DECEMBER 31, 2015	\$2,637
Provision charged to cost of sales	3,562
Usage	(2,936)
Adjustments to previously provided warranties, net	(424)
Currency translation	(60)
BALANCE AT DECEMBER 31, 2016	\$2,779

Research and Development

Research and product development costs are expensed as incurred. Research and development costs include salaries and related expenses, facility costs and amounts paid to contract research organizations for the provision of services and materials as well as costs for internal use or clinical trials.

Government Grants

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We recognize government grants when there is reasonable assurance that all conditions will be received. Our government grants generally represent subsidies for specified activities when earned as a reduction of the expenses recorded for the activity that the grants are for. If the grant relates to research and development expense, the grant is recognized over the period of the expense incurred. Otherwise, amounts received under government grants are recorded as liabilities. If a grant relates to an asset, the nominal amount of the grant is deducted from the carrying amount of the asset over the same period that the related asset is depreciated.

Borrowing Costs

Borrowing costs directly attributable to the acquisition, construction or production of long-term assets are capitalized over the period of time to get ready for its intended use or sale are capitalized as part of the cost of the asset. Borrowing costs are expensed when such borrowing costs are significant. All other borrowing costs are expensed in the period in which they are incurred.

Shipping and Handling Income and Costs

Shipping and handling costs charged to customers are recorded as revenue in the period in which the sale is recorded. Associated costs of shipping and handling are included in sales and marketing expenses. For the years ended December 31, 2016, 2015 and 2014, shipping and handling costs totaled \$26.5 million, \$24.5 million and \$23.5 million, respectively.

Advertising Costs

The costs of advertising are expensed as incurred and are included as a component of selling expenses. Advertising costs for the years ended December 31, 2016, 2015 and 2014 were \$8.4 million, \$7.5 million and \$6.5 million, respectively.

General and Administrative, Integration and Other

General and administrative expenses primarily represent the costs required to support our operations. In addition, we incur indirect acquisition and business integration costs in connection with our acquisitions. These costs represent incremental costs that we believe would not have been incurred absent the business combination. The components of these costs include payroll and related costs for employees remaining with the acquired operations; public relations, advertising and media costs for re-branding of the combined operations; and fees incurred to integrate or restructure the acquired operations.

Restructuring

Restructuring costs include personnel costs (principally termination benefits), facility closure costs, and other costs. Termination benefits are accounted for in accordance with FASB ASC Topic 712, Compensation - Retirement Benefits, and are recorded when it is probable that employees will be terminated and the amount can be reasonably estimated. Estimates of termination benefits are based on the frequency of terminations, the similarity of benefits under the current plan and prior plans, and the existence of statutory requirements. Facility closure, some termination benefits and other costs are accounted for in accordance with FASB ASC Topic 420, Liabilities - Disposal Cost Obligations and are recorded when the liability is incurred. The specific amounts of the associated estimated costs are based on management's best business judgment under the circumstances when the estimates are made. If future events require changes to these estimates, such adjustments are recorded in the period of the revised estimate.

Income Taxes

We account for income taxes under the liability method. Under this method, total income tax expense is the amount of income taxes expected to be payable for the current year plus the change from the beginning of the year to the end of the year in the deferred tax assets and liabilities established for the expected further tax consequences resulting from the reporting and tax basis of assets and liabilities. Deferred tax assets and/or liabilities are recognized for the differences between the financial reporting and tax reporting bases for assets and liabilities that are expected to be in effect when such differences are recovered or settled. Deferred tax assets are recognized only when it is more likely than not that the amount more likely than not to be realized. The effect on deferred taxes of a change in the tax law or rate is recognized in the period that includes the enactment date.

Tax benefits are initially recognized in the financial statements when it is more likely than not that the tax position will be sustained upon examination by the tax authorities. Such tax positions are initially and measured at the amount of tax benefit that is greater than 50 percent likely of being realized upon settlement.

the cumulative probability method, assuming the tax authority has full knowledge of the company's tax policy is to recognize interest accrued related to unrecognized tax benefits in interest expense and income tax expense.

Derivative Instruments

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We enter into derivative financial instrument contracts to minimize the variability of cash flows associated with the anticipated transactions being hedged or to hedge fluctuating interest rates. Changes in foreign currency or interest rate impact the value of anticipated transactions, the fair value of derivatives, offsetting foreign currency or interest rate fluctuations. Derivative instruments are recorded at fair value. Changes in fair value of derivatives are recorded in current earnings or other comprehensive income, depending on whether a derivative is designated as part of a hedge transaction.

Share-Based Payments

Compensation cost for all share-based payments is recorded based on the grant date fair value of the awards, less pre-vesting forfeitures, recognized in expense over the service period. As discussed in Note 12, in 2016 we made a change in accounting principle to move from a straight-line attribution method to an accelerated attribution method.

Stock Options: We utilize the Black-Scholes-Merton valuation model for estimating the fair value of stock options granted. Option valuation models, including Black-Scholes-Merton, require the input of several assumptions. Changes in the assumptions used can materially affect the grant date fair value of an award. The assumptions used are: risk-free rate of interest, expected dividend yield, expected volatility, expected life of the options, and the fair value of not granted stock options since 2013.

Restricted Stock Units and Performance Stock Units: Restricted stock units and performance stock units are awarded to receive Common Shares at a future date. The fair market value of restricted and performance stock units is based on the number of stock units granted and the fair market value of our shares on the grant date. The grant date fair value, less an estimate for pre-vesting forfeitures, is recognized in expense over the service period. In each reporting period, the estimated performance achievement of the performance stock units is determined. If the estimated achievement is recorded on a cumulative basis in the period of adjustment.

Forfeiture Rate—This is the estimated percentage of grants that are expected to be forfeited before becoming fully vested. We estimated the forfeiture rate based on historical forfeitures.

Cash and Cash Equivalents

Cash and cash equivalents consist of cash on deposit in banks and other cash invested in short-term securities that are short-term and highly liquid, and having an original maturity of less than 90 days.

(in thousands)	2016	2015
Cash at bank and on hand	\$ 137,615	\$ 217,644
Short-term bank deposits	301,565	72,367
Cash and Cash Equivalents	\$ 439,180	\$ 290,011

Short-Term Investments

Short-term investments are classified as “available for sale” and stated at fair value in the consolidated balance sheet. Interest income is accrued when earned and changes in fair market values are reflected in other comprehensive income. Gains and losses are calculated on the specific identification method, as a component of accumulated other comprehensive income. The amortization of premiums and accretion of discounts to maturity arising from the purchase of debt securities is included in income. A decline in fair value that is judged to be other-than-temporary is accounted for as an impairment. A write-down is included in the consolidated statements of income. Realized gains and losses are calculated on the specific identification basis, on the sale of short-term investments are included in income.

Fair Value of Financial Instruments

The carrying amount of cash and cash equivalents, notes receivable, accounts receivable, and accounts payable and liabilities approximate their fair values because of the short maturities of those instruments. The fair value of variable rate debt and capital leases approximates their fair values because of the short maturities. The fair values of the Cash and Cash Equivalents are comparable to those available to us on similar terms. The fair values of the Cash and Cash Equivalents are estimated using available over-the-counter market information. The fair values of the other financial instruments further described in Note 15 were estimated using the changes in the U.S. Treasury rate.

Accounts Receivable

Our accounts receivable are unsecured and we are at risk to the extent such amounts become uncollectible. We monitor accounts receivable balances, and provide for an allowance for doubtful accounts based on payment history or age of the receivable. Amounts determined to be uncollectible are written off.

against the reserve. For the years ended December 31, 2016, 2015 and 2014, write-off
million,

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\$2.0 million and \$2.3 million, respectively, while provisions for doubtful accounts were \$2.1 million, \$2.1 million and \$1.4 million, respectively. For all years presented, no more than ten percent of accounts receivable or consolidated net sales.

Inventories

Inventories are stated at the lower of cost, determined on a first-in, first-out basis, or net realizable value. Inventories include capitalized labor and overhead costs. Inventories consisted of the following as of December 31:

(in thousands)	2016	2015
Raw materials	\$29,402	\$27,051
Work in process	28,123	21,066
Finished goods	79,027	88,469
Total inventories, net	\$136,552	\$136,586

Property, Plant and Equipment

Property, plant and equipment, including equipment acquired under capital lease obligations, are stated at cost less accumulated amortization. Capitalized internal-use software costs include only those costs incurred in the development or acquisition of computer software for internal use, including costs associated with the installation and testing of the system. Costs associated with preliminary development, including the identification of alternatives, as well as training, maintenance and support are expensed as incurred. Costs of software that is not otherwise marketed that are related to the conceptual formulation and design are expensed as incurred. Costs to produce the product after technological feasibility is established are capitalized and amortized. Software developed for accounting standards for the costs of software to be sold, leased, or otherwise marketed are capitalized and amortized using the straight-line method over the estimated useful lives of the assets (3 to 40 years). Software developed for improvements is computed on a straight-line basis over the lesser of the remaining life of the improvement asset. We have a policy of capitalizing expenditures that materially exceed the cost of charging ordinary maintenance and repairs to operations as incurred. When property, plant and equipment and related accumulated depreciation and amortization are removed from the accounts, their respective amounts are charged to earnings.

Acquired Intangibles and Goodwill

Acquired intangibles with alternative future uses are carried at cost less accumulated amortization. Intangible assets include technology held by third parties and other acquired intangible assets. Amortization is calculated over the useful life of the underlying patents, which has historically ranged from one to twenty years. Intangible assets acquired in business combinations, other than goodwill, are amortized over their estimated useful lives. Intangible assets determined to be indefinite. Intangibles are assessed for recoverability considering the expected cash flows over which the intangible will contribute to future cash flow. The unamortized cost of intangible assets that are independent and identifiable from other assets, is evaluated periodically and adjusted if circumstances indicate that a decline in value below the carrying amount has occurred. Intangible asset impairments of \$21.4 million related to the restructuring as discussed in Note 6. For the year ended December 31, 2014, we recorded intangible asset impairments of \$0.2 million and \$8.7 million, respectively. Intangible asset impairments recorded during the year ended December 31, 2014 are further discussed in Note 6 Restructuring. Amortization expense related to developed technology and patent and license rights within the research and development combination is included in cost of sales. Amortization of trademarks, customer base and other intangible assets that have been acquired in a business combination is recorded in operating expense under the category of 'intangible amortization'. Amortization expenses of intangible assets not acquired in a business combination are included within either the cost of sales, research and development or sales and marketing line item. Goodwill represents the difference between the purchase price and the estimated fair value of the net assets acquired from business combinations. Goodwill is subject to impairment tests annually or earlier if events or circumstances exist, using a fair-value-based approach. We have elected to perform our annual test for goodwill impairment on October 1st of each year. Following the annual impairment tests for the years ended December 31, 2015 and 2014, goodwill has not been impaired. As discussed in Note 6 Restructuring, in 2016 we recorded no impairment of goodwill.

Investments

We have investments in non-marketable securities issued by privately held companies and other long-term assets in the accompanying consolidated balance sheets and are accounted for using the cost method of accounting.

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Investments are evaluated periodically, or when impairment indicators are noted, to determine if the impairment is other-than-temporary. In making that determination, we consider all available evidence, including the security. This evidence includes, but is not limited to, the following:

- adverse financial conditions of a specific issuer, segment, industry, region or other value driver;
- the length of time and the extent to which the fair value has been less than cost; and
- the financial condition and near-term prospects of the issuer.

We consider whether the fair values of any of our cost or equity method investments decline whenever adverse events or changes in circumstances indicate that recorded value is less than fair value. Whenever such decline is considered to be other than temporary (based on various factors, including the nature of the investment, product development activities and the overall health of the affiliate's industry), then the carrying amount of the investment is recorded in operating expense to its estimated fair value. In 2016, we recorded an impairment of \$8.3 million, in other expense, net. For the year ended December 31, 2015, we recorded an impairment of a cost method investment of \$2.2 million, in other expense, net. For the year ended December 31, 2014, we recorded impairments to cost method investments of \$6.0 million, of which \$4.8 million was recorded in research and development expense and \$1.2 million was recorded in research and development expense.

Impairment of Long-Lived Assets

We review our long-lived assets for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset or a group of assets may not be recoverable. We consider, among other things, operating losses or a change in expected sales levels to be indicators of potential impairment. Long-lived assets are evaluated for impairment at the lowest level for which there are identifiable cash flows that are not significantly affected by cash flows of other groups of assets. If an asset is determined to be impaired, the loss is measured as the excess of the carrying amount of the asset exceeds fair value which is determined by applicable market prices are not available, we generally measure fair value by discounting projected cash flows. Considerable judgment is necessary to estimate discounted future cash flows. Accordingly, we record such estimates. During the year ended December 31, 2016, in connection with the restructuring, we recorded asset impairment charges of \$10.9 million, of which \$9.2 million is recorded in research and development expense, \$1.5 million is recorded in general and administrative, integration and other expense, and \$0.2 million is recorded in sales and \$0.1 million is recorded in sales and marketing expense. In 2015, we recorded an impairment of \$1.5 million in general and administrative, integration and other expenses in the accompanying statements of income related to the abandonment of certain software projects following the acquisition of QIAGEN. In 2014, we recorded impairment charges of \$19.6 million, of which \$15.5 million is recorded in cost of sales, \$2.4 million is recorded in research and development expense, and \$1.7 million in general and administrative, integration and other expenses in the accompanying statements of income.

4. Segment Information

Considering the acquisitions made during 2016, we determined that we still operate as a single reportable segment with FASB ASC Topic 280, Segment Reporting. As a result of our continued restructuring and reorganization, our chief operating decision maker (CODM) continues to make decisions regarding the company's operations and resource allocation based on evaluations of QIAGEN as a whole. Accordingly, we report financial information in summarized product category and geographic information is shown in the tables below.

Product Category Information

Net sales for the product categories are attributed based on those revenues related to sales of consumables and similarly related revenues including bioinformatics solutions, and revenues derived from other product categories.

(in thousands)	2016	2015	2014
Net Sales			
Consumables and related revenues	\$1,166,131	\$1,114,580	\$1,172,728
Instrumentation	171,860	166,406	172,049
Total	\$1,337,991	\$1,280,986	\$1,344,777

Geographical Information

Net sales are attributed to countries based on the location of the customer. QIAGEN and its subsidiaries in Germany, China, the United Kingdom, and the United States that supply products to our subsidiaries

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in other countries. The sales from these manufacturing operations to other countries are included in the consolidated net sales. The intersegment portions are included in the consolidated net sales. No single customer represents more than ten percent of consolidated net sales. The domicile is the Netherlands, which reported net sales of \$12.4 million, \$11.3 million and \$10.1 million for 2016, 2015 and 2014, respectively, and these amounts are included in the line item Europe shown in the table below.

(in thousands)	2016	2015	2014
Net Sales			
Americas:			
United States	\$555,676	\$525,532	\$543,877
Other Americas	71,797	79,578	75,974
Total Americas	627,473	605,110	619,851
Europe, Middle East and Africa	428,055	409,955	451,092
Asia Pacific and Rest of World	282,463	265,921	273,834
Total	\$1,337,991	\$1,280,986	\$1,344,777

Long-lived assets include property, plant and equipment. The Netherlands, which is included in Europe, reported long-lived assets of \$1.4 million and \$0.3 million as of December 31, 2016 and 2015, respectively.

(in thousands)	2016	2015
Long-lived assets		
Americas:		
United States	\$145,813	\$148,748
Other Americas	4,544	2,691
Total Americas	150,357	151,439
Germany	237,190	243,120
Other Europe	37,057	35,573
Asia Pacific and Rest of World	12,051	12,812
Total	\$436,655	\$442,944

5. Acquisitions

Acquisitions have been accounted for as business combinations, and the acquired companies are included in the accompanying consolidated statements of income from their respective dates of acquisition. The acquisitions have historically been made at prices above the fair value of the acquired net assets, resulting in the recognition of intangible assets. These synergies include use of our existing infrastructure, service centers, distribution channels and customer relations, to expand sales of the acquired businesses and the infrastructure of the acquired businesses to cost-effectively expand sales of our products. The acquired facilities, functions and staffing.

2016 Acquisitions

During the second quarter of 2016, we acquired a majority shareholding in Exiqon A/S, a company headquartered in Vedbaek, Denmark, which is a leading provider of RNA analysis technology. The acquisition expands our leadership position in RNA analysis. On June 28, 2016, we paid DKK 627.4 million (\$95.2 million) for approximately 67% of Exiqon common shares. On the acquisition date, the fair value of the remaining shareholding was based on reference to quoted market values of Exiqon shares. We have acquired the remaining Exiqon shares for \$5.5 million in cash, which is included in the accompanying consolidated statements of cash flows, and as of December 31, 2016 we have incurred acquisition-related costs of \$6.3 million are included in the accompanying consolidated statements of income.

The preliminary purchase price allocation as of December 31, 2016 did not differ from allocation as of June 30, 2016 other than a \$9.4 million increase in developed technology asset on tax loss carry forwards, a \$2.8 million decrease in customer relationships, a deferred tax liability, a \$0.4 million increase in prepaid expenses and other current assets, and an increase of other opening balance sheet liabilities. The corresponding impact for these changes was a goodwill of \$14.7 million.

The allocation of the purchase price is preliminary and is not yet finalized. The preliminary allocation is based upon preliminary estimates which used information that was available to management at the time the statements were prepared and these estimates and assumptions are subject to change within one year from the acquisition date. Accordingly, the allocation may change. We continue to adjust deferred taxes related to the intangible assets acquired as well as the deferred tax asset.

(in thousands)	Exiqon acquisition
Purchase Price:	
Cash consideration	\$95,166
Fair value of remaining shares	5,519
	\$100,685
Preliminary Allocation:	
Cash and cash equivalents	\$4,824
Accounts receivable	3,581
Inventory	1,553
Prepaid expenses and other current assets	1,853
Accounts payable	(1,289)
Accruals and other current liabilities	(11,587)
Debt assumed	(6,068)
Other long-term liabilities	(197)
Deferred tax asset on tax loss carry forwards	10,016
Fixed and other long-term assets	2,870
Developed technology	18,500
Customer relationships	3,800
Tradenames	1,400
Goodwill	76,807
Deferred tax liability on fair value of identifiable intangible assets acquired	(5,381)
	\$100,685

The weighted average amortization period for the intangible assets is 11.1 years. The allocation is for tax purposes.

Revenue and earnings in the reporting periods since the acquisition date have not been provided. Information has been provided herein as the acquisition of Exiqon did not have a material impact on earnings per share on a pro forma basis.

2015 Acquisitions

During 2015, we completed three acquisitions, including the acquisition of MO BIO Laboratories, Inc., a company, that is considered a leader in sample technologies for metagenomics and microbiome research. The consideration for these acquisitions totaled \$66.9 million in cash, net of cash acquired. The purchase price allocations are final. Each of these acquisitions did not have a material impact on earnings per share and therefore no pro forma information has been provided herein.

2014 Acquisition

In December 2014, we acquired the enzyme solutions business of Enzymatics Inc. (E products are used in an estimated 80% of all next-generation sequencing (NGS) work portfolio complements QIAGEN's leading offering of universal NGS products, advancing of NGS in clinical healthcare. The cash consideration totaled \$114.2 million. The acquisition had a material business impact to net sales, net income or earnings per share, and therefore has been provided herein.

The final purchase price allocation of Enzymatics did not differ from the preliminary \$2.1 million in fair value of contingent consideration, a \$0.4 million increase of long-term assets and an additional \$0.1 million increase of other opening balance sheet adjustments. The correction was an increase to goodwill of \$2.4 million. These changes to arrive at the final purchase price allocation to the consolidated financial statements.

The final purchase price allocation for Enzymatics was as follows:

(in thousands)	Enzymatics Inc. acquisition
Purchase Price:	
Cash consideration	\$ 114,200
Fair value of contingent consideration	13,600
	\$ 127,800
Final Allocation:	
Cash and cash equivalents	\$ 1,178
Accounts receivable	2,813
Prepaid expenses and other current assets	1,330
Fixed and other long-term assets	1,414
Accounts payable	(3,090)
Accruals and other current liabilities	(1,940)
Developed technology	28,600
Tradenames	6,600
Customer relationships	22,300
Goodwill	90,177
Deferred tax liability on fair value of identifiable intangible assets acquired	(21,550)
	\$ 127,800

The weighted-average amortization period for the intangible assets is 11.1 years. The amortization is for tax purposes.

Certain acquisitions may include contingent consideration which is recorded as part of the acquisition date fair value. Under the purchase agreement, potential contingent consideration of \$13.6 million, of which the fair value of \$13.6 million was recorded as purchase price using future milestones using discount rates between 0.70% and 2.20%. See Note 14, "Fair value of contingent consideration liabilities."

Other 2014 Acquisitions

During 2014, we completed other acquisitions which individually were not significant to our consolidated financial statements. The cash paid for these acquisitions, net of cash acquired, totaled \$47.4 million. Individually did not have a material impact to net sales, net income or earnings per share. Information has been provided herein.

Other Acquisition

During 2011, we acquired a majority shareholding in QIAGEN Marseille S.A., formerly a publicly listed company founded and based in Marseille, France. During 2014, we acquired an additional 9.77% of the Marseille shares for a total of \$0.3 million and held 90.27% of the Marseille shares as of December 31, 2014.

6. Restructuring

During the fourth quarter of 2016, we initiated series of targeted actions to support fa

The table below shows how the costs related to the restructuring program were recorded:

The table below shows how the costs related to the restructuring program were recorded:

Personnel and related expense includes a \$2.0 million reduction in costs as a result of

Personnel and related expense includes a \$2.0 million reduction in costs as a result of

compensation in connection with terminations. We incurred consulting costs of \$7.5

Costs, related to third party consulting costs associated with the development of the r

and Disposals include \$21.4 million for intangible asset impairments, \$10.9 million for

million primarily in connection with the write-off of prepaid contract costs. The total

other expense, net in the accompanying consolidated statements of income is compos

impairment of an equity method investment and a disposal of goodwill of \$2.6 million.

The following table summarizes the cash components of the restructuring activity.

Contr:

At December 31, 2016, \$27.6 million of the liability is included in accrued and other

At December 31, 2016, \$27.6 million of the liability is included in accrued and other

included in other long-term liabilities in the accompanying consolidated balance sheet.

2014 Restructuring

2014 Restructuring

During the fourth quarter of 2014, we recorded pretax charges of \$37.1 million in res

the acquisition of Enzymatics discussed in Note 5 and from the implementation of he

consolidations to further streamline operations and various measures as part of a com

and related to QIAGEN's strategic focus on its five growth drivers. Of these charges,

sales, \$2.4 million is recorded in sales and marketing, and \$8.3 million is recorded in

other. The pretax charge consists of \$6.4 million for workforce reductions, \$19.6 million for intangible asset abandonment charges, \$8.7 million for intangible asset abandonment charges in line with strategic initiatives, and \$1.3 million for other charges. The pretax charge is primarily related to restructuring costs incurred in connection with the Company's technological and competitive

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current. Additionally, we incurred contract termination and consulting costs of \$2.4 million incurred in 2015 or 2016 related to this program.

The following table summarizes the components of the 2014 restructuring costs. At December 31, 2014, \$14.6 million were payable under this restructuring program. At December 31, 2015, a restructuring program of \$4.1 million was in accrued and other current liabilities.

(in thousands)	Personnel Related	Facility Related	Contract and Other Costs	Total
Balance at December 31, 2014	\$ 6,341	\$ 7,627	\$ 652	\$ 14,620
Payments	(4,789)	(4,199)	(418)	(9,406)
Release of excess accrual	(453)	—	(20)	(473)
Foreign currency translation adjustment	(630)	—	—	(630)
Balance at December 31, 2015	\$ 469	\$ 3,428	\$ 214	\$ 4,111
Payments	(143)	(3,428)	(214)	(3,785)
Release of excess accrual	(325)	—	—	(325)
Foreign currency translation adjustment	(1)	—	—	(1)
Balance at December 31, 2016	\$ —	\$ —	\$ —	\$ —

2011 Restructuring

Late in 2011, we began a project to enhance productivity by streamlining the organization's strategic initiatives. This project eliminated organizational layers and overlapping structures. The project included actions to focus research and development activities on higher-growth areas, consolidate operations at fewer sites, and realign sales and regional marketing teams in the U.S. to meet market needs in a more streamlined manner across the continuum from basic research to translational research and diagnostics.

The following table summarizes the cash components of the restructuring costs.

(in thousands)	Personnel Related	Facility Related	Contract and Other Costs	Total
Balance at December 31, 2013	\$ 9,782	\$ 313	\$ 511	\$ 10,606
Payments	(8,071)	(313)	(511)	(8,895)
Release of excess accrual	(775)	—	—	(775)
Foreign currency translation adjustment	(210)	—	—	(210)
Balance at December 31, 2014	\$ 726	\$ —	\$ —	\$ 726
Payments	(381)	—	—	(381)
Release of excess accrual	(340)	—	—	(340)
Foreign currency translation adjustment	(5)	—	—	(5)
Balance at December 31, 2015	\$ —	\$ —	\$ —	\$ —

7. Short-Term Investments

At December 31, 2016 and 2015, we had \$89.3 million and \$127.1 million, respectively, of short-term investments consisting of commercial paper due from financial institutions. These loan receivables and commercial paper are classified as current assets and are carried at cost. At December 31, 2016, these loans consist of \$63.5 million and €24.5 million (approximately \$26.5 million at December 31, 2016) which mature at various dates through December 2018. All instruments that have a maturity of less than 12 months include redemption rights on at least a quarterly basis. Interest income is determined on the amortized cost method. These loans are classified as current assets in the accompanying consolidated balance sheet. We may sell the loans at our discretion.

At December 31, 2016 and 2015, we also had €3.5 million (\$3.7 million) and €3.4 million of cash and cash equivalents and short-term deposits with final maturities in August 2017. The deposits can be withdrawn at the end of the term and are therefore classified as current assets in the accompanying consolidated balance sheet.

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For the year ended December 31, 2016 and 2015, proceeds from sales of short term investments totaled \$367.7 million, respectively. During the year ended December 31, 2016, realized gains totaled \$6.0 million and for the years ended December 31, 2015 and 2014, realized losses totaled \$6.0 million and \$3.0 million, respectively.

8. Prepaid Expenses and Other Current Assets

Prepaid expenses and other current assets are summarized as follows as of December 31,

(in thousands)	2016	2015
Prepaid expenses	\$35,529	\$38,986
Value added tax	14,985	15,219
Other receivables	10,899	9,658
Fair value of derivative instruments	5,386	3,758
Amounts held in escrow in connection with acquisitions	—	2,500
Total prepaid expenses and other current assets	\$66,799	\$70,121

9. Property, Plant and Equipment

Property, plant and equipment, including equipment acquired under capital lease obligations, are summarized as follows as of December 31, 2016 and 2015:

(in thousands)	Estimated useful life (in years)	2016	2015
Land	—	\$16,327	\$15,452
Buildings and improvements	5-40	301,092	302,068
Machinery and equipment	3-10	257,349	253,556
Computer software	3-7	176,227	125,396
Furniture and office equipment	3-10	89,560	92,281
Construction in progress	—	47,260	63,825
		887,815	852,578
Less: Accumulated depreciation and amortization		(451,160)	(409,634)
Property, plant and equipment, net		\$436,655	\$442,944

Amortization of assets acquired under capital lease obligations is included within accumulated depreciation and amortization above for the years ended December 31, 2016 and 2015, respectively. For the years ended December 31, 2015 and 2014 depreciation and amortization expense totaled \$75.1 million, \$59.5 million and \$58.1 million, respectively. For the years ended December 31, 2016, 2015 and 2014 amortization related to computer software to be sold, leased or marketed totaled \$9.3 million, \$5.1 million and \$6.2 million, respectively.

In 2016, we recorded asset impairment charges of \$10.9 million related to the restructuring of MO BIO. Impairments included \$7.5 million of computer software to be sold, leased or marketed, \$1.5 million in internal-use software, \$0.1 million in furniture and office equipment, and \$2.8 million in buildings and improvements. In 2015, we recorded asset impairment charges of \$3.1 million related to computer software to be sold, leased or marketed related to the abandonment of certain projects of MO BIO.

Repairs and maintenance expense was \$13.0 million, \$15.4 million and \$15.9 million for the years ended December 31, 2016, 2015 and 2014, respectively. For the year ended December 31, 2016 and 2015, construction in progress primarily included software development projects. For the years ended December 31, 2016, 2015 and 2014, construction with construction projects was not significant.

10. Investments

We have made strategic investments in certain companies that are accounted for using the equity method of accounting. The method of accounting for an investment depends on the level of influence and the circumstances that may

require a reassessment of the level of influence. We periodically review the carrying value of equity method investments for impairment, considering factors such as the most recent stock transactions and book value statements. The fair value of cost and equity-method investments is estimated when there are circumstances that may have an impact on the fair value of the investment. Additionally, we have equity securities that have readily determinable fair values that are classified as available-for-sale and reported at fair value, with unrealized gains and losses recorded in accumulated other comprehensive income.

Equity Method Investments

A summary of these equity method investments, which are included in other long-term assets on our balance sheets, is as follows:

(\$ in thousands)	Ownership Percentage	Equity investments as of December 31,	
		2016	2015
PreAnalytiX GmbH	50.00 %	\$3,519	\$10,826
Biotype Innovation GmbH	24.90 %	3,339	3,777
Pyrobett	19.00 %	2,444	2,111
Hombrechtikon Systems Engineering AG	19.00 %	1,524	—
QIAGEN (Suzhou) Institute of Translation Research Co., Ltd.	30.00 %	—	203
QIAGEN Finance	100.00 %	—	—
QBM Cell Science	19.50 %	—	—
Dx Assays Pte Ltd	33.30 %	—	—
		\$10,826	\$16,616

In connection with the restructuring activities discussed in Note 6, we transferred the ownership of our instrumentation business to a new company, Hombrechtikon Systems Engineering AG. We transferred a 19.0% interest for a total obligation of \$9.8 million which is payable over three years. \$9.8 million was included in accrued and other current liabilities and \$5.9 million was included in the accompanying consolidated balance sheet. HSE is a variable interest entity and we do not hold the power to direct the activities that most significantly impact the economic performance of HSE. HSE is not consolidated. In 2016, we recorded an impairment of the investment in HSE and accordingly, as of December 31, 2016, the investment has a carrying value of \$1.1 million. We have long-term assets in the consolidated balance sheets, representing our maximum exposure to equity method investments. We had a 100% interest in QIAGEN Finance (Luxembourg) S.A. (QIAGEN Finance), which was formed for the purpose of issuing convertible debt in 2004. The proceeds of the 2004 Notes were loaned to support the operations of QIAGEN N.V. group. QIAGEN N.V. had guaranteed the 2004 Notes, and had agreed to convert the common shares to the investors in the event of conversion of the 2004 Notes. QIAGEN Finance is a variable interest entity. We did not hold any variable interests in QIAGEN Finance, and we were not treated as the primary beneficiary. QIAGEN Finance was not consolidated. Accordingly, the 2004 convertible debt was not included in our consolidated statements of QIAGEN N.V., though QIAGEN N.V. did report the full obligation of the 2004 Notes. QIAGEN Finance. QIAGEN N.V. accounted for its investment in QIAGEN Finance as a cost method investment in the first quarter of 2015 and accordingly recorded 100% of the profit or loss of QIAGEN Finance. During the first quarter of 2015, we repaid the \$250.9 million loan to QIAGEN Finance under the warrant agreement with QIAGEN Finance.

Cost Method Investments

At December 31, 2016 and 2015, we had a total of cost-method investments in non-primarily owned entities of amounts of \$38.2 million and \$17.2 million, respectively, which are included in other long-term assets on our balance sheets. The fair-value of these cost-method investments are not estimated unless there are changes in circumstances that may have a significant adverse effect on the fair value of the investment. As of December 31, 2016, and 2015, we made cost-method investments totaling \$20.1 million and \$17.2 million, respectively.

respectively. In August 2016, we converted a \$0.6 million short-term loan into additional cost-method investment. In 2015, we recorded total impairments to a cost method investment of \$1.2 million, net. In 2014, we recorded total impairments to a cost method investment of \$1.2 million, net. In 2013, we recorded total impairments to a cost method investment of \$1.2 million, net and \$1.2 million was recorded in research and development expense, net.

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Marketable Equity Securities

During 2016, we made an investment in HTG Molecular Diagnostics, Inc., a publicly traded long-term marketable security. At December 31, 2016, we held 833,333 shares with a cost of \$2.0 million. Our former cost-method investment in Curetis AG was reclassified during 2015 upon the completed IPO of its Dutch holding company, Curetis N.V. At December 31, 2016, we held 1,000,000 shares with a cost of \$2.3 million. As of December 31, 2016 and 2015, the fair market value was \$2.5 million and \$3.5 million, respectively. Long-term marketable securities are included in other assets on our consolidated balance sheets.

11. Goodwill and Intangible Assets

The following sets forth the intangible assets by major asset class as of December 31, 2016 and 2015:

(in thousands)	Weighted Average Life (in years)	2016 Gross Carrying Amount	2015 Gross Carrying Amount
Amortized Intangible Assets:			
Patent and license rights	10.61	\$373,609	\$373,609
Developed technology	10.64	708,825	708,825
Customer base, trademarks, and non-compete agreements	10.71	422,797	422,797
	10.65	\$1,505,231	\$1,505,231
Unamortized Intangible Assets:			
Goodwill		\$1,925,518	\$1,925,518

The changes in intangible assets for the years ended December 31, 2016 and 2015 are:

(in thousands)	Intangibles	Goodwill
BALANCE AT DECEMBER 31, 2014	\$726,914	\$1,887,963
Additions	45,575	—
Purchase adjustments	(8,200)	1,656
Acquisitions	31,412	37,084
Amortization	(131,953)	—
Impairment losses	(205)	—
Foreign currency translation adjustments	(27,122)	(51,005)
BALANCE AT DECEMBER 31, 2015	\$636,421	\$1,875,698
Additions	70,937	76,807
Purchase adjustments	(321)	316
Acquisitions	23,700	—
Amortization	(137,949)	—
Disposals	(29)	(2,650)
Impairment losses	(21,423)	—
Foreign currency translation adjustments	(14,177)	(24,653)
BALANCE AT DECEMBER 31, 2016	\$557,159	\$1,925,518

Amortization expense on intangible assets totaled approximately \$137.9 million, \$132.1 million, and \$132.1 million, respectively, for the years ended December 31, 2016, 2015 and 2014.

In 2016, we recorded an intangible asset abandonment charge of \$21.4 million related to certain technologies in connection with the restructuring discussed more fully in Note 6. Of this charge, \$10.0 million was recorded in research and development expense and \$11.4 million was recorded in other operating expenses.

included in cost of sales and \$11.1 million is included in research and development in statements of income.

Cash paid for purchases of intangible assets during the years ended December 31, 2016 and 2015 was \$19.7 million of which \$3.9 million and \$6.4 million, respectively, were not yet in service and are classified as long-term assets in the consolidated balance sheet. Intangible asset additions of \$70.9 million were paid during the year ended December 31, 2016, together with \$7.1 million of additions of prepayments and \$48.4 million of additions which were accrued as of December 31, 2016. \$1.6 million relate to licenses for which fixed payments are expected to occur through the year 2021. The changes in the carrying amount of goodwill during the years ended December 31, 2016 and 2015 resulted from changes in foreign currency translation together with acquired goodwill from the year 2015 purchase price adjustments made in connection with 2015 purchase price allocation for the acquisition of the business discussed in Note 5. Additionally, \$2.6 million of goodwill was disposed of in connection with the restructuring and development activities of our instrumentation business as part of the restructuring. Accumulated goodwill impairment totaled \$1.6 million as of December 31, 2016 and 2015.

Amortization of intangibles for the next five years is expected to be approximately:

(in thousands)	Amortization
Years ended December 31:	
2017	\$ 128,561
2018	\$ 106,175
2019	\$ 84,389
2020	\$ 59,125
2021	\$ 50,845

12. Accrued and Other Current Liabilities

Accrued and other current liabilities at December 31, 2016 and 2015 consist of the following:

(in thousands)	2016	2015
Accrued expenses	\$74,245	\$51,784
Payroll and related accruals	54,772	52,036
Deferred revenue	44,629	49,812
Restructuring	27,590	4,144
Accrued royalties	7,801	13,786
Cash collateral	6,984	7,826
Fair value of derivative instruments	6,089	525
Accrued interest on long-term debt	4,239	4,239
Accrued contingent consideration and milestone payments	2,957	6,995
Current portion of capital lease obligations	999	922
Total accrued and other current liabilities	\$230,305	\$192,069

13. Derivatives and Hedging

In the ordinary course of business, we use derivative instruments, including swaps, to hedge our exposure to potential losses from foreign currency exposures and interest bearing assets or liabilities. Our primary objective in using derivative instruments is to minimize the risks and/or costs associated with our global operations. We do not utilize derivative or other financial instruments for trading or other speculative purposes. We measure as either assets or liabilities on the balance sheet on a gross basis, measure those instruments on a net basis, change in fair value in earnings in the period of change, unless the derivative qualifies for hedge accounting on certain exposures. In 2015, we agreed with almost all of our counterparties with whom we have entered into swaps, interest rate swaps or foreign exchange contracts, to enter into bilateral collateral agreements to receive or provide cash collateral, as the case may be, for the net position with each other as of December 31, 2016,

cash collateral positions consisted of \$7.0 million recorded in accrued and other current liabilities in prepaid and other current assets in the accompanying consolidated balance sheet. As of December 31, 2016 and 2015, we held derivative instruments that are designated as fair value hedges where the effective portion of the gain or loss on the derivative is reported as a component of other comprehensive income (loss) and reclassified into earnings in the same period or periods during which the hedged item affects earnings. Gains and losses on the derivative representing either hedge ineffectiveness or hedge effectiveness are recognized in current earnings. In 2016 and in 2015, we recognized a net gain of \$7.6 million of derivative losses included in accumulated other comprehensive income during the next 12 months. The cash flows derived from derivatives are classified in the consolidated cash flows in the same category as the consolidated balance sheet account of the underlying item. As of December 31, 2016 and 2015, we held derivative instruments that qualify for hedge accounting. For derivative instruments that are designated and qualify as a fair value hedge, the effective portion of the change in the fair value of the derivative is reflected in earnings. This earnings effect is offset by the change in the fair value of the underlying asset attributable to the risk being hedged that is also recorded in earnings. In 2016 and 2015, we recognized a net gain of \$7.6 million of derivative losses included in accumulated other comprehensive income during the next 12 months. The cash flows derived from derivatives are classified in the consolidated cash flows in the same category as the consolidated balance sheet account of the underlying item.

Interest Rate Derivatives

We use interest rate derivative contracts to align our portfolio of interest bearing assets with our investment management objectives. During 2015, we entered into five cross currency interest rate swaps with a notional amount of €180.0 million which qualify for hedge accounting as cash flow hedges. As of December 31, 2016, the €180.0 million notional swap had a fair value of \$1.4 million and accrued and unpaid interest of \$1.7 million which are both recorded in prepaid and other current assets, respectively, in the accompanying consolidated balance sheet. This swap had a fair value of \$5.3 million and accrued and unpaid interest of \$1.6 million which are both recorded in long-term assets in the accompanying consolidated balance sheet.

During 2014, we entered into interest rate swaps, which effectively fixed the fair value of our private placement debt and qualify for hedge accounting as fair value hedges. We determined that there was no ineffectiveness related to these swaps. As of December 31, 2016, the \$200.0 million notional swap had a fair value of \$5.0 million and accrued and unpaid interest of \$0.8 million which are both recorded in prepaid and other current assets, respectively, in the accompanying consolidated balance sheet. As of December 31, 2015, the \$200.0 million notional swap had a fair value of \$5.0 million and accrued and unpaid interest of \$0.8 million which are both recorded in prepaid and other current assets, respectively, in the accompanying balance sheet.

Call Options

We entered into Call Options during 2014 which, along with the sale of the Warrants, were entered into in connection with the Cash Convertible Notes and which are more fully described in our 2014 Form 10-K. We used \$68.9 million of the proceeds from the issuance of the Cash Convertible Notes to pay the premium for the Call Options. We simultaneously received \$68.9 million (net of issuance costs) from the sale of the Warrants. We used \$68.9 million for the Call Spread Overlay. The Call Options are intended to address the equity value of the conversion feature by offsetting cash payments in excess of the principal amount due on the Cash Convertible Notes.

Aside from the initial payment of a premium of \$105.2 million for the Call Options, we will not make any cash payments under the Call Options. We will, however, be entitled to receive under the Call Options an amount of cash generally equal to the amount by which the market price per share of our common stock exceeds the exercise price of the Call Options during the relevant valuation period. The exercise price of the Call Options is the conversion price of the Cash Convertible Notes.

The Call Options, for which our common stock is the underlying security, are a derivative instrument. For accounting treatment due to the cash settlement features until the Call Options settle, they are classified as measured and reported at fair value on a recurring basis, within Level 2 of the fair value hierarchy.

the inputs used to determine the fair value of the Call Options, refer to Note 14. The fair value of the Call Options at December 31, 2016 and 2015 was approximately \$185.8 million and \$169.0 million, respectively, and is included in long-term assets in the accompanying consolidated balance sheet.

The Call Options do not qualify for hedge accounting treatment. Therefore, the change in fair value of the Call Options is recognized immediately in our consolidated statements of income in other expense, net.

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2016 and 2015, the changes in the fair value of the Call Options resulted in gains of \$ respectively. Because the terms of the Call Options are substantially similar to those of the embedded cash conversion option, discussed below, we expect the effect on earnings to mostly offset each other.

Cash Convertible Notes Embedded Cash Conversion Option

The embedded cash conversion option within the Cash Convertible Notes is required to be accounted for separately as a derivative liability, with changes in fair value recorded in consolidated statements of income in other expense, net until the cash conversion option is exercised. For further discussion of the Cash Convertible Notes, refer to Note 15. The initial fair value liability of the embedded cash conversion option was \$105.2 million, which simultaneously reduced the carrying value of the Cash Convertible Notes (original issuance discount). The embedded cash conversion option is measured and recorded at fair value on a recurring basis, within Level 2 of the fair value hierarchy. For further discussion of the inputs used to measure the fair value of the embedded cash conversion option, refer to Note 14. The fair value of the embedded cash conversion option as of 2016 and 2015 was approximately \$187.5 million and \$171.0 million which is recorded on the accompanying balance sheet. For the years ended December 31, 2016 and 2015 the change in fair value of the cash conversion option resulted in losses of \$16.6 million and \$21.5 million, respectively.

Foreign Currency Derivatives

As a globally active enterprise, we are subject to risks associated with fluctuations in foreign currency exchange rates on our operations. This includes foreign currency-denominated receivables, payables, debt, and equity investments, including intercompany items. We manage balance sheet exposure on a group-wide basis through the use of forward contracts, foreign exchange options and cross-currency swaps.

Undesignated Derivative Instruments

We are party to various foreign exchange forward, option and swap arrangements which had an aggregate notional value of \$347.6 million and fair values of \$3.2 million and \$6.1 million as of December 31, 2016 and 2015, respectively, which expire at various dates. We were party to various foreign exchange forward and swap arrangements which had an aggregate notional value of \$264.2 million and fair values of \$1.4 million and \$0.5 million included in current assets and accrued and other current liabilities, respectively, which expired at various dates. These arrangements have been entered into to offset the effects from short-term balance sheet exposure to foreign currency exchange rates. Changes in the fair value of these arrangements have been recognized in other expense, net.

Fair Values of Derivative Instruments

The following table summarizes the fair value amounts of derivative instruments reported on the accompanying balance sheet as of December 31, 2016 and 2015:

(in thousands)	Derivatives in Asset Positions	
	Fair value	
	2016	2015
Derivative instruments designated as hedges		
Interest rate contracts ⁽¹⁾	\$ 6,655	\$ 12,687
Total derivative instruments designated as hedges	\$ 6,655	\$ 12,687
Undesignated derivative instruments		
Call spread overlay	\$ 185,750	\$ 169,037
Foreign exchange contracts	3,154	1,393
Total derivative instruments	\$ 188,904	\$ 170,430

(1) The fair value amounts for the interest rate contracts include accrued interest.

Gains and Losses on Derivative Instruments

The following tables summarize the classification and gains and losses on derivative instruments for the years ended December 31, 2016, 2015 and 2014:

Year-Ended December 31, 2016 (in thousands)	Gain/(loss) recognized in AOCI	Location of gain/loss in income statement
Cash flow hedges		
Interest rate contracts	\$ (3,969)) Other expense,
Fair value hedges		
Interest rate contracts	\$ —	Other expense,
Undesignated derivative instruments		
Call spread overlay	n/a	Other expense,
Foreign exchange contracts	n/a	Other expense,
Year-Ended December 31, 2015 (in thousands)	Gain/(loss) recognized in AOCI	Location of (gain) loss in income statement
Cash flow hedges		
Interest rate contracts	\$ 5,337	Other expense,
Fair value hedges		
Interest rate contracts	\$ —	Other expense,
Undesignated derivative instruments		
Call spread overlay	n/a	Other expense,
Foreign exchange contracts	n/a	Other expense,
Year-Ended December 31, 2014 (in thousands)	Gain/(loss) recognized in AOCI	Location of (gain) loss in income statement
Fair value hedges		
Interest rate contracts	\$ —	Other expense,
Undesignated derivative instruments		
Call spread overlay	n/a	Other expense,
Foreign exchange contracts	n/a	Other expense,

The amounts noted in the table above for accumulated other comprehensive income (loss) are net of the impact of deferred income taxes.

14. Fair Value Measurements

Assets and liabilities are measured at fair value according to a three-tier fair value hierarchy. The following table summarizes the instruments used in measuring fair value as follows:

Level 1. Observable inputs, such as quoted prices in active markets;

Level 2. Inputs, other than the quoted price in active markets, that are observable either directly or indirectly, through prices in active markets.

Level 3. Unobservable inputs in which there is little or no market data, which require assumptions.

Our assets and liabilities measured at fair value on a recurring basis consist of short-term investments, cash equivalents, marketable securities, derivative contracts used to hedge currency and interest rate risk and derivative financial instruments, including the Cash Convertible Notes discussed in Note 15, which are classified in Level 1 and Level 2 of the fair value hierarchy, marketable securities discussed in Note 15, derivative contracts used to hedge currency and interest rate risk and derivative financial instruments, including the Cash Convertible Notes discussed in Note 15, which are classified in Level 1, derivative contracts used to hedge currency and interest rate risk and derivative financial instruments, including the Cash Convertible Notes discussed in Note 15, which are classified in Level 1, connection with the Cash Convertible Notes discussed in Note 15, which are classified in Level 1 and contingent consideration accruals which are classified in Level 3 of the fair value hierarchy. The following table provides a summary of the fair value measurements of our assets and liabilities measured at fair value on a recurring basis as of December 31, 2023:

In determining fair value for Level 2 instruments, we apply a market approach, using the particular instrument under valuation, giving consideration to the credit risk of both the contract and the Company. To determine our credit risk, we estimated our credit rating by comparing our outstanding debt to publicly-available comparable data from rated companies. Using the credit rating, we quantified by reference to publicly-traded debt with a corresponding rating. The Level 2 instruments include the Call Options asset and the embedded conversion option liability. See Note 13, "Derivatives and Hedging", for further information. The derivatives are not valued using an option pricing model that uses observable market data for inputs. Significant market values as of December 31, 2016 included our common stock price, the risk-free interest rate, and our common stock. The Call Options asset and the embedded cash conversion option liability are such that changes in their fair values would substantially offset, with limited net impact to earnings, the effect of changes in the unobservable inputs to the option pricing model for such instruments. Our Level 3 instruments include contingent consideration liabilities. We value contingent consideration using unobservable inputs, applying the income approach, such as the discounted cash flow method or the scenario method. Contingent consideration arrangements obligate us to pay the sellers if certain future events occur or conditions are met such as the achievement of technological or business milestones. Our key assumptions, such as the probability of achievement of the milestones (0% to 100%, 2.2% and 7.7%), to represent the non-performing risk factors and time value when applied. We regularly review the fair value of the contingent consideration, and reflect any change in our statements of income in the line items commensurate with the underlying nature of the consideration. The following table presents our fair value hierarchy for our financial assets and liabilities measured on a recurring basis:

	As of December 31, 2016				As of December 31, 2015	
(in thousands)	Level 1	Level 2	Level 3	Total	Level 1	Level 2
Assets:						
Short-term investments	\$3,699	\$89,300	\$—	\$92,999	\$3,674	\$127,300
Marketable securities	4,064	—	—	4,064	3,485	—
Call option	—	185,750	—	185,750	—	169,000
Foreign exchange contracts	—	3,154	—	3,154	—	1,393
Interest rate contracts	—	6,655	—	6,655	—	12,680
	\$7,763	\$284,859	\$—	\$292,622	\$7,159	\$310,373
Liabilities:						
Foreign exchange contracts	\$—	\$(6,089)	\$—	\$(6,089)	\$—	\$(525)
Cash conversion option	—	(187,546)	—	(187,546)	—	(170,900)
Contingent consideration	—	—	(8,754)	(8,754)	—	—
	\$—	\$(193,635)	\$(8,754)	\$(202,389)	\$—	\$(171,425)

For liabilities with Level 3 inputs, the following table summarizes the activity for the 2015:

(in thousands)	Contingent Consideration
BALANCE AT DECEMBER 31, 2014	\$ (17,477)
Additions from acquisitions	(5,476)
Gain included in earnings	5,225
Foreign currency translation adjustments	50
BALANCE AT DECEMBER 31, 2015	\$ (17,678)
Additions	(692)
Payments	3,120
Gain included in earnings	6,501
Foreign currency translation adjustments	(5)
BALANCE AT DECEMBER 31, 2016	\$ (8,754)

For the year ended December 31, 2016, of the total \$8.8 million accrued for contingent consideration included in other long-term liabilities and \$3.0 million is included in accrued and other liabilities, \$6.5 million gain for the reduction in the fair value of contingent consideration related to the business combination in general and administrative, integration and other in the accompanying consolidated statement of income. Gains for the reduction in the fair value of contingent consideration totaling \$5.2 million are included in general and administrative, integration and other.

The carrying values of financial instruments, including cash and cash equivalents, accounts receivable, other accrued liabilities, approximate their fair values due to their short-term maturities. The carrying value of long-term debt as disclosed in Note 15 was based on current interest rates for similar debt. Fair values may not represent actual values of the financial instruments that could be realized in the future. There were no fair value differences in the years ended December 31, 2016 and December 31, 2015. Nonfinancial assets or liabilities required to be measured at fair value on a nonrecurring basis were not significant. Cost-method investments as discussed in Note 10.

15. Lines of Credit and Debt

Our credit facilities available and undrawn at December 31, 2016 total €436.6 million. Our credit facilities include a €400.0 million syndicated multi-currency revolving credit facility expiring December 31, 2018. At December 31, 2016, \$100.0 million of the revolving credit facility were utilized at December 31, 2016 or at December 31, 2015, and four other lines of credit with no expiration date, none of which were utilized as of December 31, 2016 or as of December 31, 2015. The revolving credit facility can be utilized in Euro, British pounds sterling, Swiss franc or U.S. dollar and is offered at three months EURIBOR, or LIBOR in relation to any loan not in euro, and is offered at three, six or twelve months. The commitment fee is calculated based on 35% of the applicable margin and \$0.9 million of commitment fees were paid, respectively. The revolving facility is subject to financial and non-financial covenants, including but not limited to, restrictions on the encumbrance of assets and certain financial ratios. We were in compliance with these covenants at December 31, 2016 for general corporate purposes.

At December 31, 2016 and December 31, 2015, total long-term debt, net of debt issued in connection with the business combination, of \$100.0 million and \$100.0 million, respectively, consists of the following:

(in thousands)	2016	2015
3.19% Series A Senior Notes due October 16, 2019	\$73,408	\$73,790
3.75% Series B Senior Notes due October 16, 2022	301,601	302,943
3.90% Series C Senior Notes due October 16, 2024	26,910	26,898
0.375% Senior Unsecured Cash Convertible Notes due 2019	402,806	391,111
0.875% Senior Unsecured Cash Convertible Notes due 2021	262,371	254,284
Total long-term debt	\$1,067,096	\$1,049,020

The notes are all unsecured obligations that rank pari passu. Interest expense on long-term debt was \$36.4 million and \$36.4 million for the years ended December 31, 2016, 2015 and 2014, respectively. Future maturities (stated at the carrying values) of long-term debt as of December 31, 2016, are as follows:

Year ending December 31, (in thousands)

2017	\$ —
2018	—
2019	476,214
2020	—
2021	262,371
thereafter	328,511
	\$ 1,067,096

Cash Convertible Notes due 2019 and 2021

On March 19, 2014, we issued \$730.0 million aggregate principal amount of Cash Convertible Notes. \$430.0 million is due in 2019 (2019 Notes) and \$300.0 million is due in 2021 (2021 Notes). The 2019 Notes and 2021 Notes, collectively as the “Cash Convertible Notes”. The aggregate net proceeds from the issuance of the Cash Convertible Notes was \$680.7 million, after payment of the net cost of the Call Spread Overlay described below. We used \$372.5 million of the net proceeds to repay the 2006 Notes and related subordinated debt. Interest on the Cash Convertible Notes is payable semiannually in arrears on March 15 and September 15 at rates of 0.375% and 0.875% per annum for the 2019 Notes and 2021 Notes, respectively. The 2019 Notes will mature on March 19, 2019 and the 2021 Notes will mature on March 19, 2021, unless converted in accordance with their terms prior to such date.

The Cash Convertible Notes are convertible into cash in whole, but not in part, at the option of the noteholders under the following circumstances: (a) from April 29, 2014 through September 18, 2018 for the 2019 Notes and from April 29, 2014 through September 18, 2021 for the 2021 Notes (Contingent Conversion Period), under any of the Contingent Conversion Periods following the Contingent Conversion Period through the fifth business day immediately following the Contingent Conversion Period through the fifth business day immediately following the Contingent Conversion Period. Date. Upon conversion, noteholders will receive an amount in cash equal to the Cash Convertible Notes described below. The Cash Convertible Notes are not convertible into shares of our common stock. Noteholders may convert their Cash Convertible Notes into cash at their option at any time during the Contingent Conversion Period only under the following circumstances (Contingent Conversion Period): (i) during any calendar quarter commencing after the calendar quarter ending on March 15 of any calendar year (the “Contingent Conversion Period”), if the last reported sale price of our common stock for at least 20 trading days (consecutive) during a period of 30 consecutive trading days ending on the last trading day of the Contingent Conversion Period is greater than or equal to 130% of the conversion price on each applicable trading day; (ii) if we undergo certain fundamental changes as defined in the agreement; (iii) during the five business day period immediately after any ten consecutive trading days in which the trading price of the 2019 Notes or the 2021 Notes for each trading day of the measurement period was less than 100% of the last reported sale price of our common stock and the conversion rate on each such trading day was greater than 130% of the conversion price; (iv) if we elect to distribute assets or property to all or substantially all of the holders of our common stock and other property have a value of more than 25% of the average daily volume-weighted trading price of our common stock for the prior 20 consecutive trading days;

if we elect to redeem the Cash Convertible Notes; or

if we experience certain customary events of default, including defaults under certain

As adjusted by the synthetic share repurchase discussed in Note 17, the conversion rate is 1.00 share of common stock per \$200,000 principal amount of Cash Convertible Notes (reflecting an adjusted conversion rate of \$28.32 per share of common stock). Upon conversion, holders are entitled to a cash payment equal to the average of the conversion rate multiplied by the daily volume-weighted average price of our common stock over a 50-day period. The conversion rate is subject to adjustment in certain instances for accrued and unpaid interest. In addition, following the occurrence of certain corporate events prior to the applicable maturity date, we may be required to pay a cash make-whole premium by 100% of the principal amount to the holder who elects to convert Cash Convertible Notes in connection with the occurrence of such event. We may redeem the 2019 Notes or 2021 Notes in their entirety at a price equal to 100% of the principal amount of applicable Cash Convertible Notes plus accrued interest at any time when 20% or less of the principal amount of the applicable Cash Convertible Notes originally issued remain outstanding.

Because the Cash Convertible Notes contain an embedded cash conversion option, we have determined that the cash conversion option is a derivative financial instrument, which is required to be separated from the Cash Convertible Notes and accounted for separately as a derivative liability, with changes in fair value recorded in our statements of income until the cash conversion option transaction settles or expires. The fair value of the embedded cash conversion option was \$105.2 million, which simultaneously reduced the carrying value of the Cash Convertible Notes (effectively an original issuance discount). For further discussion of the accounting relating to the Cash Convertible Notes, refer to Note 13.

As noted above, the reduced carrying value on the Cash Convertible Notes resulted in an increase in the principal amount through the recognition of non-cash interest expense over the expected term of five and seven years for the 2019 Notes and 2021 Notes, respectively. This resulted in our carrying the Cash Convertible Notes at an effective rate approximating what we would have incurred if the Cash Convertible Notes otherwise similar terms been issued. The effective interest rate of the 2019 and 2021 Notes was 10.0% and 10.5%, respectively, which is imputed based on the amortization of the fair value of the embedded cash conversion option over the remaining term of the Cash Convertible Notes. As of December 31, 2016, we expect that approximately 50% of their 2019 maturity date and the 2021 Notes to be outstanding until their 2021 maturity date. The weighted average periods of approximately five and seven years, respectively. Based on an estimation using the carrying value information on the Cash Convertible Notes, the fair value of the 2019 Notes was \$483.1 million, the fair value of the 2021 Notes was \$349.6 million and \$356.1 million, at December 31, 2016 and 2015, respectively. In connection with the issuance of the Cash Convertible Notes, we incurred approximately \$105.2 million of costs. Such costs have been allocated to the Cash Convertible Notes and deferred as an original issuance discount and amortized over the terms of the Cash Convertible Notes.

Interest expense related to the Cash Convertible Notes was comprised of the following:

	Year-Ended December 31	
(in thousands)	2016	2015
Coupon interest	\$4,238	\$4,238
Amortization of original issuance discount	17,503	16,935
Amortization of debt issuance costs	2,279	2,220
Total interest expense related to the Cash Convertible Notes	\$24,020	\$23,393

Cash Convertible Notes Call Spread Overlay

Concurrent with the issuance of the Cash Convertible Notes, we entered into privately negotiated Call Options (the "Call Options") with, and issued warrants to purchase shares of our common stock (the "Warrants"). We refer to the Call Options and Warrants collectively as the "Call Spread Overlay". The cash payments payable by us in excess of the principal amount due upon any conversion of the Cash Convertible Notes were used \$105.2 million of the proceeds from the issuance of the Cash Convertible Notes. Simultaneously, we simultaneously received \$69.4 million from the sale of the Warrants, for a net cash outflow of \$35.8 million on the Call Spread Overlay. The Call Options are derivative financial instruments and are discussed in Note 13.

are equity instruments and are further discussed in Note 17.

Aside from the initial payment of a premium of \$105.2 million for the Call Option, w
payments under the Call Options, and will be entitled to receive an amount of cash, g
the

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market price per share of our common stock exceeds the exercise price of the Call Options period. The exercise price under the Call Options is initially equal to the conversion price. The Warrants cover an aggregate of 25.8 million shares of our common stock (subject to certain circumstances) and have an initial exercise price of \$32.085 per share, subject to certain circumstances. Warrants expire as follows: Warrants to purchase 15.2 million shares expire over a period ending December 27, 2018 and Warrants to purchase 10.6 million shares expire over a period ending December 29, 2020. The Warrants are European-style (exercisable only upon expiration) and have a dilutive effect to the extent that the price of our common stock exceeds the applicable exercise price. If a Warrant that is exercised, we will deliver to the holder a number of shares of our common stock, which the settlement price exceeds the exercise price, divided by the settlement price, less the exercise price, divided by the settlement price, per share. We will not receive any proceeds if the Warrants are exercised.

Private Placement

In October 2012, we completed a private placement through the issuance of new senior notes totaling \$399.9 million with a weighted average interest rate of 3.66% (settled on October 16, 2012). The notes consist of three series: (1) \$73.0 million 7-year term due in 2019 (3.19%); (2) \$300.0 million 10-year term due in 2022 (3.90%); and (3) \$26.9 million 12-year term due in 2024 (3.90%). We paid \$2.1 million in debt issue costs. The estimated interest expense over the lifetime of the notes. Approximately €170.0 million (approximately \$200.0 million) of the notes were used to repay amounts outstanding under our short-term revolving credit facility. The proceeds provides additional resources to support our longer-term business expansion. The indenture contains certain financial and non-financial covenants, including but not limited to, restrictions on the maintenance of certain financial ratios. We were in compliance with these covenants as of December 31, 2015. Our estimation using the changes in the U.S. Treasury rates, the Level 2 fair value of these notes as of December 31, 2015 was approximately \$397.1 million and \$399.3 million, respectively. We entered into interest rate swaps, which effectively fixed the fair value of the \$200.0 million of this debt as fair value hedges as described in Note 13.

2006 Notes

In May 2006, we completed the offering of \$300 million of 3.25% Senior Convertible Notes through an unconsolidated subsidiary, QIAGEN Euro Finance (Euro Finance). The notes were loaned by Euro Finance to consolidated subsidiaries. These long-term notes payable to Euro Finance had an interest rate of 3.7% and were due in May 2026. Interest was payable semi-annually in May and November. The notes were issued at 100% of principal value, and were convertible into 15.0 million common shares of QIAGEN N.V. upon the occurrence of certain events, at a price of \$20.00 per share, subject to adjustment. In 2014, QIAGEN Euro Finance issued shares to the investors in the event of conversion of the notes. The related receivable, was recorded at fair value in the equity of QIAGEN N.V. as paid-in capital. In 2014, QIAGEN N.V. redeemed the \$300.0 million loan payable to Euro Finance and approximately 98% of the loan was repaid to Euro Finance for \$372.5 million, and recognized a loss on the redemption of \$4.6 million. The repayment amount was allocated to the loan and warrants on a relative fair value basis. The balance of the additional paid in capital for the redemption of the warrant subscription receivable. QIAGEN Euro Finance redeemed the 2006 Notes. During 2014, we issued 0.2 million common shares of QIAGEN N.V. upon the exercise of the remaining subscription rights and subsequently Euro Finance was repaid.

2004 Notes

In August 2004, we completed the sale of \$150 million of 1.5% Senior Convertible Notes through our unconsolidated subsidiary QIAGEN Finance. The net proceeds of the 2004 Notes were loaned by QIAGEN Finance to consolidated subsidiaries with an effective interest rate of 1.8% were due in February and August. The 2004 Notes were issued at 100% of principal value. The notes were convertible into 11.5 million common shares at the option of the holders upon the occurrence of certain events, at a price of \$20.00 per share, subject to adjustment. QIAGEN N.V. had an agreement with QIAGEN Finance to issue shares to the investors in the event of conversion. The subscription right, along with the related receivable, was recorded at fair value in the equity of QIAGEN N.V. as paid-in capital. In 2014, 1.2 million common shares were issued in connection with the exercise of the remaining subscription rights. During 2015, we repaid the loan to QIAGEN Finance and repurchased the warrant agreement.

\$250.9 million and recognized a loss of \$7.6 million in other expense, net. The repayments of the debt and warrants on a relative fair value basis with \$113.0 million recorded against additions to the warrant subscription receivable. Subsequent to these transactions QIAGEN Financial Services

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16. Income Taxes

Income before income taxes for the years ended December 31, 2016, 2015 and 2014 are as follows:
(in thousands)

	2016	2015	2014
Pretax income in The Netherlands	\$20,695	\$1,310	\$(4,931)
Pretax income from foreign operations	36,213	134,993	124,320
	\$56,908	\$136,303	\$119,389

Income taxes for the years ended December 31, 2016, 2015 and 2014 are as follows:

(in thousands)	2016	2015	2014
Current—The Netherlands	\$6,043	\$973	\$936
—Foreign	36,536	41,862	41,667
	42,579	42,835	42,603
Deferred—The Netherlands	188	250	317
—Foreign	(66,162)	(36,684)	(40,464)
	(65,974)	(36,434)	(40,147)

Total income tax expense (benefit) \$(23,395) \$6,401 \$2,456

In the table above and throughout Note 16, amounts related to 2015 and 2014 are revised to reflect the change in accounting principle for share-based compensation. See further discussion in the Issued Financial Statements for Change in Attribution Method section of Note 20, Share-based Compensation.

The Netherlands statutory income tax rate was 25% for the years ended December 31, 2016, 2015 and 2014. Income tax expense for the foreign subsidiaries is generally taxed at the statutory income tax rates applicable in the respective jurisdictions.

The principal items comprising the differences between income taxes computed at the statutory rates and the actual income taxes reported are as follows for the years ended December 31, 2016, 2015 and 2014:

(in thousands)	2016		2015	
	Amount	Percent	Amount	Percent
Income taxes at The Netherlands statutory rate	\$14,227	25.0 %	\$34,076	25.0 %
Taxation of foreign operations, net ⁽¹⁾	(43,265)	(76.0)	(36,407)	(26.7)
Tax impact from non-deductible items	5,938	10.4	14,219	10.4
Tax impact from tax-exempt income ⁽²⁾	(3,331)	(5.9)	(5,810)	(4.3)
Tax contingencies, net	1,761	3.1	1,163	0.9
Taxes due to changes in tax rates	399	0.7	(836)	(0.6)
Government incentives and other deductions ⁽³⁾	(2,543)	(4.5)	(2,754)	(2.0)
Prior year taxes	1,411	2.5	(1,201)	(0.9)
Valuation allowance	1,521	2.7	3,450	2.5
Other items, net	487	0.9	501	0.4
Total income tax expense (benefit)	\$(23,395)	(41.1)%	\$6,401	4.7

(1) Our effective tax rate reflects the benefit of our global operations where certain income tax rates are lower than The Netherlands' statutory rate of 25% as well as the benefit of some income tax credits and deductions. Income taxes due to various intercompany operating and financing activities. The most significant tax benefits from our global operations and financing activities are attributable to subsidiaries in Germany, Singapore, Luxembourg and the United States. These foreign tax benefits are due to a combination of favorable tax laws and tax credits in these jurisdictions. Additionally, in 2016 and 2014, in certain foreign jurisdictions (including the United States), we recorded acquisition related and impairment charges which reduced pretax income in these jurisdictions.

(2) The impact from tax-exempt income primarily reflects The Netherlands' benefit of the exemption of interest income from taxation. See Note 15 "Lines of Credit and Debt." These notes were redeemed in 2014 and 2015, resulting in a tax benefit.

related income tax benefit of \$2.6 million in 2014, did not and will not impact our effective tax rate. In 2016, tax-exempt income includes nontaxable income in the U.S. from the release of nontaxable dividend income in Switzerland.

(3) Government incentives include favorable tax regulations primarily in France in 2016, research and development expense as well as the United States Internal Revenue Code activities deduction.

We conduct business globally and, as a result, file numerous consolidated and separate tax returns in The Netherlands, Germany, Switzerland and the U.S. federal jurisdiction, as well as in various other jurisdictions. In the normal course of business, we are subject to examination by taxing authorities in these jurisdictions. Tax years in The Netherlands are open since 2004 for income tax examinations by tax authorities. In Germany, with a few exceptions, are no longer subject to income tax examinations by tax authorities for tax years prior to 2004. Our consolidated group is subject to federal and most state income tax examinations by tax authorities in the U.S. from December 31, 2013 through the current period.

Starting in February 2014, the U.S. tax authorities (Internal Revenue Service) have been auditing our U.S. tax returns for 2011 and 2012. The audit was closed in 2016 without any proposed tax adjustments. As a result, we recognized \$6.6 million of unrecognized tax benefit due to closure of the tax audit. Additionally, the U.S. tax authorities began the audit of the German tax returns for the 2010-2013 tax years. This audit is ongoing and we expect the audit to close during 2017.

In 2014, we established a reserve related to cash convertible notes as discussed in Note 7. In 2016, we received a confirmation from the relevant tax authorities, which resulted in a release of the reserve. Changes in the amount of unrecognized tax benefits are as follows:

(in thousands)	Unrecognized Tax Benefits
BALANCE AT DECEMBER 31, 2014	\$ 16,002
Additions based on tax positions related to the current year	2,018
Additions for tax positions of prior years	2,640
Settlements with taxing authorities	(2,988)
Reductions due to lapse of statute of limitations	(747)
Decrease from currency translation	(190)
BALANCE AT DECEMBER 31, 2015	\$ 16,735
Additions based on tax positions related to the current year	4,218
Additions for tax positions of prior years	5,162
Decrease for tax position of prior years	(6,796)
Settlements with taxing authorities	—
Reductions due to lapse of statute of limitations	(288)
Decrease from currency translation	(737)
BALANCE AT DECEMBER 31, 2016	\$ 18,294

At December 31, 2016 and 2015, our net unrecognized tax benefits totaled approximately \$18.3 million and \$16.7 million, respectively, of which \$18.3 million and \$16.7 million in benefits, if recognized, would be recorded in the statement of income as part of the effective tax rate in any future period. It is reasonably possible that approximately \$5.8 million of unrecognized tax benefits could be released during the next 12 months due to lapse of statute of limitations or settlements with taxing authorities. However, such events could cause our current expectations to change in the future. The above unrecognized tax benefits, if recognized, would be recorded in the statement of income as part of the effective tax rate. Our policy is to recognize interest accrued related to unrecognized tax benefits in interest expense. For the years ended December 31, 2016, 2015 and 2014, we have recorded interest of \$0.1 million, \$0.3 million and \$(0.3) million, respectively. At December 31, 2016 and 2015, we have recorded interest of \$1.5 million and \$1.4 million, respectively, which are not included in the tax expense.

We have recorded net deferred tax asset of \$27.8 million and deferred tax liabilities of \$1.0 million at December 31, 2014 and 2015, respectively. The components of the net deferred tax asset and liability at December 31, 2014 and 2015 are as follows:

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(in thousands)	2016		2015	
	Deferred Tax Assets	Deferred Tax Liability	Deferred Tax Assets	Deferred Tax Liability
Net operating loss carryforwards	\$46,627	\$—	\$25,771	\$—
Accrued and other current liabilities	24,663	—	22,648	—
Inventories	2,919	(1,567)	2,394	(1,060)
Allowance for bad debts	1,060	(451)	1,121	(465)
Currency revaluation	3,474	(73)	934	(132)
Property, plant and equipment	2,096	(19,733)	1,859	(27,854)
Capital lease	830	—	1,793	—
Tax credit carryforwards	915	—	1,110	—
Unremitted profits and earnings	—	(923)	—	(902)
Intangible assets	586	(137,682)	272	(150,594)
Share-based compensation	20,282	—	20,841	—
Deferred interest deductions	76,793	—	54,307	—
Convertible debt	12,313	—	13,765	—
Other	2,652	(1,507)	2,080	(1,154)
	195,210	(161,936)	148,895	(182,161)
Valuation allowance	(5,511)	—	(3,703)	—
	\$189,699	\$ (161,936)	\$145,192	\$ (182,161)
Net deferred tax assets (liabilities)		\$ 27,763		\$ (36,969)

At December 31, 2016 and 2015, we had \$380.7 million and \$264.2 million in total for carryforwards. Included in these amounts at December 31, 2016 and 2015, were \$109 federal (NOL) carryforwards. At December 31, 2016, the entire NOL in the U.S. is subject of the Internal Revenue Code. The NOLs in the U.S. will expire beginning December Also included in the above amount as of December 31, 2016 and 2015, were other for approximately \$271.5 million and \$153.9 million, respectively, with \$41.9 million of acquisitions and \$56.4 million added due to German trade tax loss generated in 2016. NOL carryforwards in Germany of \$157.4 million predominantly trade tax NOLs. Of carryforward, a portion of the foreign NOLs will be expiring beginning December 20 as of the years ended December 31, 2016 and December 31, 2015 are \$5.5 million and valuation allowance of \$1.8 million related to NOLs and no valuation allowance was statute of limitations. We believe it is more likely than not that the net deferred tax as As of December 31, 2016, a deferred tax liability has not been recognized for residual the undistributed earnings of the majority of our foreign subsidiaries as these earnings indefinitely reinvested or can be repatriated tax free under the Dutch participation exemption earnings retained by subsidiaries amounted to \$343.9 million at December 31, 2016. In unrecognized deferred tax liability on indefinitely reinvested foreign earnings is not p remitted as dividends, we may be subject to taxes including withholding tax. We have earnings that we do not consider permanently reinvested and have recorded deferred i December 31, 2016 and December 31, 2015, of approximately \$0.9 million.

17. Equity

Synthetic Share Repurchase

In January 2017, we completed a synthetic share repurchase that combined a direct cash split. The transaction was announced in August 2016 and involved an approach used by companies to provide returns to all shareholders in a faster and more efficient manner than purchases. \$244.0 million was returned to shareholders through the transaction, which increased common shares by approximately 3.7% to 230.8 million (of which 4.95 million in treasury).
Issuance of Warrants

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In March 2014, in connection with the issuance of our Cash Convertible Notes, we issued Warrants for approximately 25.8 million shares of our common stock (subject to antidilution adjustments) with an initial exercise price of \$32.085 per share, subject to customary adjustments. Proceeds from the sale of the Warrants of approximately \$68.9 million are included as additions to our consolidated balance sheets. The Warrants expire as follows: Warrants to purchase 15.0 million of 50 trading days beginning on December 27, 2018 and Warrants to purchase 10.6 million of 50 trading days beginning on December 29, 2020. Following the synthetic share repurchase program, the exercise price is \$32.056. The Warrants are exercisable only upon expiration. For each Warrant, we will deliver to the holder a number of shares of our common stock equal to the amount by which the exercise price, divided by the settlement price, plus cash in lieu of any fractional share, would have a dilutive effect on shares of our common stock to the extent that the market value per share is less than the applicable exercise price of the Warrants (as measured under the terms of the Warrant Agreement).

Share Repurchase Programs

We announced our first share buyback program in 2012 and in 2013, we announced a second program to purchase another \$100.0 million of our common shares (excluding transaction costs). Under the second program in June 2014 having repurchased between September 2013 and June 2014 a total of 2.9 million QIAGEN shares were repurchased for a total aggregate cost of \$100.4 million (including transaction costs).

In July 2014, we announced the launch of our third share repurchase program to purchase up to \$300 million of common shares (excluding transaction costs). In 2014, 2.1 million QIAGEN shares were repurchased (excluding transaction costs) and in 2015, 0.8 million QIAGEN shares were repurchased. In connection with the synthetic share repurchase program discussed above, we announced a fourth program to take place via the open market during the remainder of 2017, with a view to return to the open market of \$300 million in 2017, including the amounts already returned via the synthetic share repurchase program. Shares is included in treasury stock and reported as a reduction in total equity when a share is repurchased and will be held in treasury in order to satisfy various obligations, which include the warrants issued in connection with the issuance of our Cash Convertible Notes discussed above and employee share-based compensation plans.

Accumulated Other Comprehensive Loss

The following table is a summary of the components of accumulated other comprehensive loss for the years ended 2016 and 2015:

(in thousands)

Net unrealized (loss) gain on hedging contracts, net of tax
Net unrealized (loss) gain on marketable securities, net of tax
Net unrealized loss on pension, net of tax
Foreign currency effects from intercompany long-term investment transactions, net of tax
million and \$7.4 million in 2016 and 2015, respectively
Foreign currency translation adjustments
Accumulated other comprehensive loss

18. Earnings per Common Share

We present basic and diluted earnings per share. Basic earnings per share is calculated attributable to the owners of QIAGEN N.V. by the weighted average number of common shares. Earnings per share reflect the potential dilution that would occur if all "in the money" shares were exercised. The following schedule summarizes the information used to compute

(in thousands, except per share data)

Net income attributable to the owners of QIAGEN N.V.

Weighted average number of common shares used to compute basic net income per common share

Dilutive effect of stock options and restrictive stock units

Dilutive effect of outstanding warrants

Weighted average number of common shares used to compute diluted net income per common share

Outstanding options and awards having no dilutive effect, not included in above calculation

Outstanding warrants having no dilutive effect, not included in above calculation

Basic earnings per common share attributable to the owners of QIAGEN N.V.

Diluted earnings per common share attributable to the owners of QIAGEN N.V.

19. Commitments and Contingencies

Lease Commitments

We lease facilities and equipment under operating lease arrangements expiring in various years. Some lease commitments provide for escalating rental payments or have renewal options extending beyond the current term. Facility and equipment leases constitute capital leases expiring in various years through 2021. Our consolidated balance sheets include the assets and liabilities arising from these capital leases. The total amount of operating lease agreements was \$29.6 million, \$23.2 million and \$25.6 million for the years ended December 31, 2016, 2015 and 2014, respectively.

Minimum future obligations under capital and operating leases at December 31, 2016

(in thousands)	Capital Leases	Operating Leases
2017	\$1,114	\$13,338
2018	1,534	9,292
2019	59	6,121
2020	12	3,752
2021	—	3,409
Thereafter	—	2,690
	2,719	\$38,602
Less: Amount representing interest	(164)	(2,555)
Less: Current portion	(999)	(999)
Long-term portion	\$1,556	
Licensing and Purchase Commitments		

We have licensing agreements with companies, universities and individuals, some of which require royalty payments. Royalty payments are required on net product sales ranging from one to 25% on quantities sold. Several of these agreements have minimum royalty requirements. Our balance sheets include accrued royalties relating to these agreements in the amount of \$14.8 million as of December 31, 2016 and 2015, respectively. Royalty expense relating to these agreements was \$14.8 million, and \$48.8 million for the years ended December 31, 2016, 2015 and 2014, respectively, and is primarily recorded in cost of sales, with a small portion recorded as research and development expense for the technology under license. Some of these agreements also have minimum raw material requirements to perform specific types of research.

At December 31, 2016, we had commitments to purchase goods or services, and for future research. They are as follows:

(in thousands)	Purchase Commitments	License & Royalty Commitments
2017	\$ 61,643	\$ 15,969
2018	19,824	11,562
2019	12,257	10,702
2020	891	10,438
2021	661	8,066
Thereafter	—	8,765
	\$ 95,276	\$ 65,502

As of December 31, 2016, future license payments of \$14.8 million and \$40.3 million are included in current liabilities and other long-term liabilities, respectively.

Contingent Consideration Commitments

Pursuant to the purchase agreements for certain acquisitions, as discussed more fully in Item 19, we may be required to make additional contingent cash payments totaling up to \$27.6 million based on the achievement of certain operating results milestones as follows: \$15.5 million in 2017, \$5.1 million in 2019, and \$7.0 million in a 12-month period from now until 2029 based on the accomplishment of certain revenue milestones. As a contingent obligation, we have assessed the fair value at December 31, 2016, to be \$8.0 million, which is included in other long-term liabilities and \$3.0 million is included in accrued liabilities on our balance sheet.

Employment Agreements

Certain of our employment contracts contain provisions which guarantee the payment of severance upon a change in control, as defined in the agreements, or if the executive is terminated for reasons other than the agreements. At December 31, 2016, the commitment under these agreements totaled \$1.0 million. The agreements with the Managing Directors and the German affiliate include a clause, with respect to the Managing Directors for potential deductions under Dutch law which, since 2014, has limited the Managing Director's remuneration any increase in the value of shares or options that may be granted if such increase is based on a public offer, merger or other identity changing transaction.

Contingencies

In the ordinary course of business, we provide a warranty to customers that our products conform to published specifications. Generally, the applicable product warranty period is one year from the date of product to the customer or of site acceptance, if required. Additionally, we typically provide warranties for our services. From time to time, we also make other warranties to customers, including those for products manufactured in accordance with applicable laws and not in violation of third-party rights. We accrue warranty costs at the time of the product sale. We believe our warranty reserves as of December 31, 2016, appropriately reflect the estimated cost of such warranty obligations.

Preacquisition Contingencies

In connection with certain acquisitions, amounts were paid into escrow accounts to cover contingencies assumed in the acquisition. The escrow amounts that are certain to be claimed by QIA amount to a long-term asset and amount to \$2.5 million as of December 31, 2016. As of December 31, 2016,

in prepaid expenses and other current assets in the accompanying consolidated balance

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Litigation

From time to time, we may be party to legal proceedings incidental to our business. Although claims, suits or legal proceedings arising out of the normal course of business have been brought against QIAGEN or its subsidiaries. These matters have arisen in the ordinary course and continue to be resolved in the ordinary course of business. Although it is not possible to predict the outcome of such litigation, we are able to evaluate the reasonably possible losses that we could incur as a result of these matters when it is probable that a liability has been incurred and that the amount of the probable loss can be reasonably estimated. Based on the facts known to QIAGEN and after consultation with legal counsel, management believes that the outcome of such litigation will not have a material adverse effect on QIAGEN's financial position or results of operations. On September 9, 2016, the U.S. District Court for the Northern District of California, San Francisco, issued a decision in which the court granted a motion for a preliminary injunction against us and against our competitor. The lawsuit alleges infringement of U.S. Patent 7,566,537 by our GeneReader NGS System. This lawsuit comes as part of a long-standing intellectual property dispute with a competitor and other entities. These types of disagreements are common in the pharmaceutical and diagnostic industries. Such disputes and launches can trigger legal actions by other parties to defend their positions. No meaningful impact on our GeneReader NGS System were included in our internal financial forecasts for 2016 due to the timing of the system and because commercialization only began in December 2015. As a result of this decision, we neither expect a material financial impact from this decision on our financial position nor do we currently anticipate any material changes to our internal financial projections for 2016 or 2017 currently scheduled to begin in November 2017.

20. Share-Based Compensation

We adopted the QIAGEN N.V. Amended and Restated 2005 Stock Plan (the 2005 Plan) and the 2014 Stock Plan (the 2014 Plan) in 2014. The 2005 Plan expired by its terms in April 2014. The 2014 Plan allows for the granting of stock rights and incentive stock options, non-qualified options, stock grants and stock-based awards, generally with terms of up to 10 years and termination in certain situations. Generally, options vest over a three-year period. The stock rights will be accelerated in the event of a Change of Control, as defined in the 2014 Plan. The 2014 Plan has been at the market value on the grant date or at a premium above the closing market price of the common stock. Treasury Shares to satisfy option exercises and award releases and had approximately 1,000,000 shares reserved and available for issuance under the 2005 and 2014 Plans at December 31, 2016. In the fourth quarter of 2016, we made a change in accounting principle to move from the cost recognition to an accelerated attribution method. As a company with multi-jurisdictional operations, we made this change to align our share-based compensation expense reporting under both U.S. GAAP and International Financial Reporting Standards (IFRS). This change is preferable because not only does it align the share-based compensation expense across our reports, whether prepared under U.S. GAAP or IFRS, but also the alignment of the cost recognition over the vesting periods. Therefore, we have revised our Consolidated Statements of Income for the years as noted in the tables below. The change resulted in an increase in the amount of pre-forfeiture share-based compensation expense in the fourth quarter of 2016 of \$21.1 million, after tax. The cumulative effect of the change in accounting principle as of January 1, 2016, was an increase in earnings of \$21.1 million, an increase in additional paid-in capital of \$29.1 million and an increase in deferred tax liabilities. This revision had no impact on our net cash provided by operations for the years ended December 31, 2015 and 2014.

The following tables summarize the selected line items from our consolidated financial statements and the effect of these adjustments to the comparative years and related tax amounts in Note 16 Income Taxes.

As of December 31, 2015 (in thousands)

Consolidated Balance Sheet	As Reported	Change in Attribution Method	As Adjusted
Long-term deferred income taxes	\$75,726	\$ (6,116)	\$69,610
Additional paid-in capital	\$1,741,167	\$ 24,428	\$1,765,595
Retained earnings	\$1,227,509	\$ (18,312)	\$1,209,197
Year-Ended December 31, 2015 (in thousands, except per share data)			

Consolidated Statements of income

Cost of sales

Research and development

Sales and marketing

General and administrative, integration and other

Income before income taxes

Income taxes

Net income

Net (loss) income attributable to noncontrolling interest

Net income attributable to the owners of QIAGEN N.V.

Basic net income per common share attributable to the owners of QIAGEN N.V.

Diluted net income per common share attributable to the owners of QIAGEN N.V.

Weighted-average common shares outstanding

Basic

Diluted

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Year-Ended December 31, 2014 (in thousands, except per share data)

Consolidated Statements of income

Cost of sales
 Research and development
 Sales and marketing
 General and administrative, integration and other

Income before income taxes
 Income taxes
 Net income
 Net (loss) income attributable to noncontrolling interest
 Net income attributable to the owners of QIAGEN N.V.
 Basic net income per common share attributable to the owners of QIAGEN N.V.
 Diluted net income per common share attributable to the owners of QIAGEN N.V.

Weighted-average common shares outstanding

Basic
 Diluted

As a result of these revisions, Note 16--Income Taxes has been revised accordingly for respect to deferred taxes related to share-based compensation.

Stock Options

We have not granted stock options since 2013. A summary of the status of employee and changes during the year then ended is presented below:

All Employee Options	Number of Shares (in thousands)	Weighted Average Exercise Price	Weighted Average Contractual Term (in years)
Outstanding at January 1, 2016	1,821	\$ 19.37	
Exercised	(354)	\$ 17.66	
Forfeited	(3)	\$ 18.68	
Expired	(25)	\$ 16.21	
Outstanding at December 31, 2016	1,439	\$ 19.84	3.85
Vested at December 31, 2016	1,439	\$ 19.84	3.85
Vested and expected to vest at December 31, 2016	1,439	\$ 19.84	3.85

The total intrinsic value of options exercised during the years ended December 31, 2016, 2015 and 2014, was \$7.0 million and \$6.38 million, respectively. At December 31, 2016, there was no unrecognized expense related to employee stock option awards.

At December 31, 2016, 2015 and 2014, 1.4 million, 1.7 million and 2.1 million options were outstanding at an average price of \$19.84, \$19.27 and \$18.10 per share, respectively. The options outstanding will expire in various years through 2023.

Stock Units

Stock units represent rights to receive Common Shares at a future date and include restricted stock units which vest time-vesting only and performance stock units which include performance conditions. The number of performance stock units earned is based on the performance achievement versus the target of 120% of the granted shares. There is no exercise price and the fair market value at the time of grant is the

requisite vesting period, generally 3 to 5 years, and in certain grants 10 years. The fair value of the number of stock units granted and the market value of our shares on the grant date were estimated to be approximately 6.5%. At December 31, 2016, there was \$76.5 million of compensation cost including estimated forfeitures related to these awards, which is expensed over a weighted average period of 2.45 years. The weighted average grant date fair value of our stock units ended December 31, 2016, 2015 and 2014 was \$23.81, \$24.91 and \$22.73, respectively. The total compensation cost that vested during the years ended December 31, 2016, 2015 and 2014 was \$27.4 million, respectively.

A summary of stock units as of December 31, 2016 and changes during the year are presented below:

Stock Units	Stock Units (in thousands)	Weighted Average Contractual Term (in years)	Aggregate Intrinsic Value (\$ in millions)
Outstanding at January 1, 2016	8,956		
Granted	2,942		
Vested	(1,200)		
Forfeited	(500)		
Outstanding at December 31, 2016	10,198	2.43	\$ 27.4
Vested and expected to vest at December 31, 2016	8,886	2.30	\$ 27.4

Compensation Expense

Share-based compensation expense before taxes for the years ended December 31, 2016, 2015 and 2014 was approximately \$28.3 million, \$23.8 million and \$44.3 million, respectively, as shown in the table below. The tax benefit realized for the tax deductions of the share-based payment arrangements totaled approximately \$1.0 million, respectively, for the years ended December 31, 2016, 2015 and 2014.

Compensation Expense (in thousands)	2016	2015	2014
Cost of sales	\$2,553	\$2,177	\$2,809
Research and development	4,735	5,686	6,696
Sales and marketing	4,824	4,815	9,086
General and administrative	16,176	11,083	25,709
Share-based compensation expense	28,288	23,761	44,300
Less: income tax benefit	6,223	5,751	8,541
Net share-based compensation expense	\$22,065	\$18,010	\$35,759

Following the restructuring program discussed in Note 6, share-based compensation expense was \$2.0 million in forfeitures in connection with the restructuring terminations. Total share-based compensation expense for 2015 was lower compared to 2014 following a reassessment on stock units with performance-based compensation cost was capitalized in inventory in 2016, 2015 or 2014 as the amounts were not expected to be realized.

21. Employee Benefits

We maintain various benefit plans, including defined contribution and defined benefit plans. The defined contribution plan is qualified under Section 401(k) of the Internal Revenue Code, and covers substantially all employees. Participants may contribute a portion of their compensation not exceeding a limit set by the IRS each year. Service. This plan includes a provision for us to match a portion of employee contributions. The total expense for the defined contribution plans, including the plans acquired via business acquisitions, was \$2.5 million, \$2.4 million and \$2.3 million for the years ended December 31, 2016, 2015 and 2014, respectively. We also have a defined contribution plan for our executive officers. We make matching contributions up to an established maximum. Matching contributions for the years ended December 31, 2016, 2015 and 2014 were \$0.3 million, \$0.3 million and \$0.3 million, respectively. We have four defined benefit, non-contributory retirement or termination plans that cover employees in the United States, France, Japan and Italy. These defined benefit plans provide benefits to covered individuals based on years of service requirements. For certain plans, we calculate the vested benefits to which employees are entitled at the time of termination.

immediately. The benefits accrued on a pro-rata basis during the employees' employment salaries, adjusted for inflation. The liability under the defined benefit plans was \$6.7 million at

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December 31, 2015, and is included as a component of other long-term liabilities on the balance sheet.

22. Related Party Transactions

From time to time, we have transactions with other companies in which we hold an ownership interest. These transactions are in the aggregate immaterial, as summarized in the table below.

	As of December 31,		For the year ended December 31,	
(in thousands)	2016	2015	2016	2015
Net sales	—	—	\$1,360	\$1,360
Reimbursements against research and development costs	—	—	—	\$1,360
Accounts receivable	\$1,302	\$1,209	—	—
Loans receivable, including interest	\$13,067	\$7,472	—	—
Accounts payable	\$391	\$471	—	—
Accrued and other current liabilities	\$3,926	—	—	—
Other long-term liabilities	\$5,889	—	—	—

During 2015, we entered in a loan agreement for \$5.0 million bearing interest of 6% a year with a company in which we hold an ownership interest. In the 2016, we increased this loan to \$10.7 million balance at December 31, 2016 of \$10.7 million including accrued interest. Additionally, we entered into a loan agreement, bearing interest of 6% a year, for \$2.4 million as of December 31, 2016 including accrued interest), loan agreement, bearing interest of 6% a year, with another company in which we hold an ownership interest. The loans were made on a non-repayable basis and no amounts have been repaid. These loans are included in other long-term assets on the balance sheet as of December 31, 2016. Additionally during 2016, we entered into a short-term loan with another company in which we hold an ownership interest. In August 2016, we converted this loan into a long-term loan with an additional interest of the company which we account for on a cost-method as discussed in Note 10. As discussed in Note 10, during 2016 we acquired a 19.0% interest in Hombrechtikon, a company with a total obligation of \$9.8 million, which is payable over three years. As of December 31, 2016, \$3.9 million was accrued and other current liabilities and \$5.9 million was included in other long-term assets on the consolidated balance sheet. HSE is a variable interest entity and we are not the primary beneficiary and thus not consolidated. Additionally during 2016, we entered into a short-term \$0.6 million loan with a company in which we hold an ownership interest. In August 2016, we converted this loan into a long-term loan with an additional interest of the company which we account for on a cost-method as discussed in Note 10.

We held 100% of the equity interest of QIAGEN Finance (Luxembourg) S.A. (QIAGEN Finance) for the purpose of issuing convertible debt. QIAGEN Finance was a variable interest entity and thus was not consolidated and accordingly, the convertible debt was not included in the consolidated balance sheet of QIAGEN N.V., though QIAGEN N.V. did report the full obligation of the debt through its liabilities. As discussed in Note 15, during 2015, we repaid the loan to QIAGEN Finance and repurchased the debt from QIAGEN Finance. Subsequent to these transactions, QIAGEN Finance was liquidated.

23. Subsequent Events

Acquisition

In January 2017, we acquired OmicSoft Corporation, a privately owned bioinformatics company that provides tools that allow customers to analyze and visualize data sets and compare them to large data sets. The acquisition was not individually significant to the overall consolidated financial results.

Synthetic Share Repurchase

In January 2017, QIAGEN completed a synthetic share repurchase that combined a dividend payment and a stock split as discussed in Note 17 Equity.

SCHEDULE II
 QIAGEN N.V. AND SUBSIDIARIES
 SCHEDULE II—VALUATION AND QUALIFYING ACCOUNTS
 FOR THE YEARS ENDED DECEMBER 31, 2016, 2015 AND 2014

(in thousands)	Balance at Beginning of Year	Provision Charged to Expense	Write-Offs	Foreign Exchange and Other	Ba Er
Year Ended December 31, 2014:					
Allowance for doubtful accounts	\$ 10,683	\$ 1,363	\$ (2,263)	\$ (936)	\$
Year Ended December 31, 2015:					
Allowance for doubtful accounts	\$ 8,847	\$ 2,093	\$ (2,022)	\$ (1,663)	\$
Year Ended December 31, 2016:					
Allowance for doubtful accounts	\$ 7,255	\$ 2,135	\$ (1,642)	\$ (134)	\$

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