

GOLDMAN SACHS GROUP INC
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The information in this preliminary pricing supplement is not complete and may be changed. This preliminary pricing supplement is not an offer to sell nor does it seek an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

Subject to Completion. Dated March 5, 2019.

GS Finance Corp.

\$

Leveraged S&P 500[®] Daily Risk Control 10% USD Excess Return Index-Linked Notes due

guaranteed by

The Goldman Sachs Group, Inc.

The notes do not bear interest. The amount that you will be paid on your notes on the stated maturity date (expected to be September 7, 2023) is based on the performance of the S&P 500[®] Daily Risk Control 10% USD Excess Return Index (Excess Return index) as measured from the trade date (expected to be April 1, 2019) to and including the determination date (expected to be September 1, 2023).

The Excess Return index measures the return on a hypothetical investment in the S&P 500[®] Daily Risk Control 10% USD Total Return Index (Risk Control index) borrowed at the overnight US dollar LIBOR rate (LIBOR). Any percentage increase in the Risk Control index will be offset by LIBOR. LIBOR is being modified. See page PS-14.

The Risk Control index provides exposure to the S&P 500[®] Total Return Index (Total Return index), subject to a daily risk control strategy that increases or decreases exposure to the Total Return index to target 10% volatility of the Risk Control index, based on the greater of short-term realized volatility and long-term realized volatility of the Total Return index. The methodology used measures variations in the historical daily returns of the Total Return index and places greater significance on the returns of days that are closer to the calculation date such that days closer to the calculation date have the majority of the impact on the volatility calculation. See page PS-20.

If realized volatility is less than 10%, the Risk Control index's exposure to the Total Return index will be greater than 100% (up to 150%) by hypothetically borrowing cash at LIBOR. If realized volatility is greater than 10%, the Risk Control index's exposure to the Total Return index will be less than 100% (and could be 0%) by reallocating exposure from the Total Return index to a hypothetical cash position that accrues interest at LIBOR. The hypothetical cash position can represent up to 100% of the Risk Control index and has been as high as 67% of such index.

The Risk Control index may decrease significantly more or increase significantly less than the Total Return index and there is no guarantee that the Risk Control index will achieve the 10% volatility target. Further, if the Excess Return index fails to outperform LIBOR, the return on your investment will be zero.

If the final Excess Return index level on the determination date is greater than the initial Excess Return index level (set on the trade date), the return on your notes will be positive and will equal 1.1 times the index return. If the final Excess Return index level is equal to or less than the initial Excess Return index level, you will receive the face amount of your notes.

To determine your payment at maturity, we will calculate the index return, which is the percentage increase or decrease in the final Excess Return index level from the initial Excess Return index level. At maturity, for each \$1,000 face amount of your notes, you will receive an amount in cash equal to:

if the index return is positive (the final Excess Return index level is greater than the initial Excess Return index level), the sum of (i) \$1,000 plus (ii) the product of (a) \$1,000 times (b) 1.1 times (c) the index return; or
if the index return is zero or negative (the final Excess Return index level is equal to or less than the initial Excess Return index level), \$1,000.

You should read the disclosure herein to better understand the terms and risks of your investment, including the credit risk of GS Finance Corp. and The Goldman Sachs Group, Inc. See page PS-12.

The estimated value of your notes at the time the terms of your notes are set on the trade date is expected to be between \$930 and \$980 per \$1,000 face amount. For a discussion of the estimated value and the price at which Goldman Sachs & Co. LLC would initially buy or sell your notes, if it makes a market in the notes, see the following page.

Original issue date: expected to be April 4, 2019 Original issue price: 100% of the face amount

Underwriting discount: % of the face amount Net proceeds to the issuer: % of the face amount

Neither the Securities and Exchange Commission nor any other regulatory body has approved or disapproved of these securities or passed upon the accuracy or adequacy of this prospectus. Any representation to the contrary is a criminal offense. The notes are not bank deposits and are not insured by the Federal Deposit Insurance Corporation or any other governmental agency, nor are they obligations of, or guaranteed by, a bank.

Goldman Sachs & Co. LLC

Pricing Supplement No. dated , 2019.

The issue price, underwriting discount and net proceeds listed above relate to the notes we sell initially. We may decide to sell additional notes after the date of this pricing supplement, at issue prices and with underwriting discounts and net proceeds that differ from the amounts set forth above. The return (whether positive or negative) on your investment in notes will depend in part on the issue price you pay for such notes.

GS Finance Corp. may use this prospectus in the initial sale of the notes. In addition, Goldman Sachs & Co. LLC or any other affiliate of GS Finance Corp. may use this prospectus in a market-making transaction in a note after its initial sale. Unless GS Finance Corp. or its agent informs the purchaser otherwise in the confirmation of sale, this prospectus is being used in a market-making transaction.

Estimated Value of Your Notes

The estimated value of your notes at the time the terms of your notes are set on the trade date (as determined by reference to pricing models used by Goldman Sachs & Co. LLC (GS&Co.) and taking into account our credit spreads) is expected to be between \$930 and \$980 per \$1,000 face amount, which is less than the original issue price. The value of your notes at any time will reflect many factors and cannot be predicted; however, the price (not including GS&Co.'s customary bid and ask spreads) at which GS&Co. would initially buy or sell notes (if it makes a market, which it is not obligated to do) and the value that GS&Co. will initially use for account statements and otherwise is equal to approximately the estimated value of your notes at the time of pricing, plus an additional amount (initially equal to \$ per \$1,000 face amount).

Prior to , the price (not including GS&Co.'s customary bid and ask spreads) at which GS&Co. would buy or sell your notes (if it makes a market, which it is not obligated to do) will equal approximately the sum of (a) the then-current estimated value of your notes (as determined by reference to GS&Co.'s pricing models) plus (b) any remaining additional amount (the additional amount will decline to zero on a straight-line basis from the time of pricing through). On and after , the price (not including GS&Co.'s customary bid and ask spreads) at which GS&Co. would buy or sell your notes (if it makes a market) will equal approximately the then-current estimated value of your notes determined by reference to such pricing models.

About Your Prospectus

The notes are part of the Medium-Term Notes, Series E program of GS Finance Corp. and are fully and unconditionally guaranteed by The Goldman Sachs Group, Inc. This prospectus includes this pricing supplement and the accompanying documents listed below. This pricing supplement constitutes a supplement to the documents listed below, does not set forth all of the terms of your notes and therefore should be read in conjunction with such documents:

Product supplement no. 1,743 dated July 10, 2017

General terms supplement no. 1,734 dated July 10, 2017

Prospectus supplement dated July 10,
2017

Prospectus dated July 10, 2017

The information in this pricing supplement supersedes any conflicting information in the documents listed above. In addition, some of the terms or features described in the listed documents may not apply to your notes.

We refer to the notes we are offering by this pricing supplement as the “offered notes” or the “notes”. Each of the offered notes has the terms described below. Please note that in this pricing supplement, references to “GS Finance Corp.”, “we”, “our” and “us” mean only GS Finance Corp. and do not include its subsidiaries or affiliates, references to “The Goldman Sachs Group, Inc.”, our parent company, mean only The Goldman Sachs Group, Inc. and do not include its subsidiaries or affiliates and references to “Goldman Sachs” mean The Goldman Sachs Group, Inc. together with its consolidated subsidiaries and affiliates, including us. The notes will be issued under the senior debt indenture, dated as of October 10, 2008, as supplemented by the First Supplemental Indenture, dated as of February 20, 2015, each among us, as issuer, The Goldman Sachs Group, Inc., as guarantor, and The Bank of New York Mellon, as trustee. This indenture, as so supplemented and as further supplemented thereafter, is referred to as the “GSFC 2008 indenture” in the accompanying prospectus supplement. The notes will be issued in book-entry form and represented by a master global note.

PS-2

For investors willing to forgo interest payments for the potential to earn 1.1x leveraged upside participation if the underlier return is positive

At maturity, for each \$1,000 face amount, the investor will receive (in each case as a percentage of the face amount):

If the final underlier level is above 100% of its initial underlier level, 100% plus 110% times the underlier return; or
 If the final underlier level is at or below its initial underlier level, 100%

Issuer:	GS Finance Corp.
Guarantor:	The Goldman Sachs Group, Inc.
Underlier:	The S&P 500 [®] Daily Risk Control 10% USD Excess Return Index (current Bloomberg symbol: "SPXT10UE Index")
Face Amount:	\$ in the aggregate; each note will have a face amount equal to \$1,000
Trade Date:	Expected to be April 1, 2019
Settlement Date:	Expected to be April 4, 2019
Determination Date:	Expected to be September 1, 2023
Stated Maturity Date:	Expected to be September 7, 2023
Initial Underlier Level:	To be determined on the trade date
Final Underlier Level:	The closing level of the underlier on the determination date
Underlier Return:	The quotient of (i) the final underlier level minus the initial underlier level divided by (ii) the initial underlier level, expressed as a positive or negative percentage
Upside Participation Rate:	110%
CUSIP/ISIN:	40056F3K9 / US40056F3K98



200.000%	210.000%
175.000%	182.500%
150.000%	155.000%
125.000%	127.500%
110.000%	111.000%
103.000%	103.300%
102.000%	102.200%
101.000%	101.100%
100.000%	100.000%
75.000%	100.000%
50.000%	100.000%
25.000%	100.000%
0.000%	100.000%



Please read the section entitled “Additional Risk Factors Specific to Your Notes” of this pricing supplement as well as the risks and considerations described in the accompanying prospectus dated July 10, 2017, in the accompanying prospectus supplement dated July 10, 2017, under “Additional Risk Factors Specific to the Underlier-Linked Notes” in the accompanying product supplement no. 1,743 dated July 10, 2017, and under “Additional Risk Factors Specific to the Notes” in the accompanying general terms supplement no. 1,734 dated July 10, 2017.

Terms AND CONDITIONS

(Terms From Pricing Supplement No. Incorporated Into Master Note No. 2)

These terms and conditions relate to pricing supplement no. dated , 2019 of GS Finance Corp. and The Goldman Sachs Group, Inc. with respect to the issuance by GS Finance Corp. of its Leveraged S&P 500® Daily Risk Control 10% USD Excess Return Index-Linked Notes due and the guarantee thereof by The Goldman Sachs Group, Inc.

The provisions below are hereby incorporated into master note no. 2, dated August 22, 2018. References herein to “this note” shall be deemed to refer to “this security” in such master note no. 2, dated August 22, 2018. Certain defined terms may not be capitalized in these terms and conditions even if they are capitalized in master note no. 2, dated August 22, 2018. Defined terms that are not defined in these terms and conditions shall have the meanings indicated in such master note no. 2, dated August 22, 2018, unless the context otherwise requires.

CUSIP / ISIN: 40056F3K9 / US40056F3K98

Company (Issuer): GS Finance Corp.

Guarantor: The Goldman Sachs Group, Inc.

Underlier: the S&P 500® Daily Risk Control 10% USD Excess Return Index (current Bloomberg symbol: “SPXT10UE Index”), or any successor underlier, as it may be modified, replaced or adjusted from time to time as provided herein

Face amount: \$ in the aggregate on the original issue date; the aggregate face amount may be increased if the company, at its sole option, decides to sell an additional amount on a date subsequent to the trade date.

Authorized denominations: \$1,000 or any integral multiple of \$1,000 in excess thereof

Principal amount: On the stated maturity date, the company will pay, for each \$1,000 of the outstanding face amount, an amount in cash equal to the cash settlement amount.

Cash settlement amount:

if the final underlier level is greater than the initial underlier level, the sum of (1) \$1,000 plus (2) the product of (i) \$1,000 times (ii) the upside participation rate times (iii) the underlier return; or

if the final underlier level is equal to or less than the initial underlier level, \$1,000

Initial underlier level (set on the trade date):

Final underlier level: the closing level of the underlier on the determination date, subject to adjustment as provided in “— Consequences of a market disruption event or non-trading day” and “— Discontinuance or modification of the underlier” below

Upside participation rate: 110%

Underlier return: the quotient of (1) the final underlier level minus the initial underlier level divided by (2) the initial underlier level, expressed as a percentage

Trade date: expected to be April 1, 2019

Original issue date (set on the trade date): expected to be April 4, 2019

Determination date (set on the trade date): expected to be September 1, 2023, unless the calculation agent determines that a market disruption event occurs or is continuing on such day or such day is not a trading day. In that event, the determination date will be the first following trading day on which the calculation agent determines that a market disruption event does not occur and is not continuing. However, the determination date will not be postponed to a date later than the originally scheduled stated maturity date or, if the originally scheduled stated maturity date is not a business day, later than the first business day after the originally scheduled stated maturity date. If a market disruption event occurs or is continuing on the day that is the last possible determination date or such last possible day is not a trading day, that day will nevertheless be the determination date.

Stated maturity date (set on the trade date): expected to be September 7, 2023, unless that day is not a business day, in which case the stated maturity date will be postponed to the next following business day. The stated maturity date will also be postponed if the determination date is postponed as described under “— Determination date” above. In such a case, the stated maturity date will be postponed by the same number of business day(s) from but excluding the originally scheduled determination date to and including the actual determination date.

PS-5

Closing level: for any given trading day, the official closing level of the underlier or any successor underlier published by the underlier sponsor on such trading day

Trading day: a day on which the respective principal securities markets for all of the underlier stocks are open for trading, the underlier sponsor is open for business and the underlier is calculated and published by the underlier sponsor

Successor underlier: any substitute underlier approved by the calculation agent as a successor underlier as provided under “— Discontinuance or modification of the underlier” below

Underlier sponsor: at any time, the person or entity, including any successor sponsor, that determines and publishes the underlier as then in effect. The notes are not sponsored, endorsed, sold or promoted by the underlier sponsor or any of its affiliates and the underlier sponsor and its affiliates make no representation regarding the advisability of investing in the notes.

Underlier stocks: at any time, the stocks that comprise the underlier as then in effect, after giving effect to any additions, deletions or substitutions

Market disruption event: With respect to any given trading day, any of the following will be a market disruption event with respect to the underlier:

- a suspension, absence or material limitation of trading in underlier stocks constituting 20% or more, by weight, of the underlier on their respective primary markets, in each case for more than two consecutive hours of trading or during the one-half hour before the close of trading in that market, as determined by the calculation agent in its sole discretion,

- a suspension, absence or material limitation of trading in option or futures contracts relating to the underlier or to underlier stocks constituting 20% or more, by weight, of the underlier in the respective primary markets for those contracts, in each case for more than two consecutive hours of trading or during the one-half hour before the close of trading in that market, as determined by the calculation agent in its sole discretion, or

- underlier stocks constituting 20% or more, by weight, of the underlier, or option or futures contracts, if available, relating to the underlier or to underlier stocks constituting 20% or more, by weight, of the underlier do not trade on what were the respective primary markets for those underlier stocks or contracts, as determined by the calculation agent in its sole discretion,

and, in the case of any of these events, the calculation agent determines in its sole discretion that such event could materially interfere with the ability of the company or any of its affiliates or a similarly situated person to unwind all or a material portion of a hedge that could be effected with respect to this note.

The following events will not be market disruption events:

- a limitation on the hours or numbers of days of trading, but only if the limitation results from an announced change in the regular business hours of the relevant market, and

- a decision to permanently discontinue trading in option or futures contracts relating to the underlier or to any underlier stock.

For this purpose, an “absence of trading” in the primary securities market on which an underlier stock is traded, or on which option or futures contracts relating to the underlier or an underlier stock are traded, will not include any time when that market is itself closed for trading under ordinary circumstances. In contrast, a suspension or limitation of trading in an underlier stock or in option or futures contracts, if available, relating to the underlier or an underlier stock in the primary market for that stock or those contracts, by reason of:

• a price change exceeding limits set by that market,
• an imbalance of orders relating to that underlier stock or those contracts, or
• a disparity in bid and ask quotes relating to that underlier stock or those contracts,
will constitute a suspension or material limitation of trading in that stock or those contracts in that market.

Consequences of a market disruption event or a non-trading day: If a market disruption event occurs or is continuing on a day that would otherwise be the determination date or such day is not a trading day, then the determination date will be postponed as described under “— Determination date” above.

PS-6

If the calculation agent determines that the closing level of the underlier that must be used to determine the cash settlement amount is not available on the postponed determination date because of a market disruption event, a non-trading day or for any other reason (except as described under “— Discontinuance or modification of the underlier” below), the calculation agent will nevertheless determine the closing level of the underlier based on its assessment, made in its sole discretion, of the level of the underlier on that day.

Discontinuance or modification of the underlier: If the underlier sponsor discontinues publication of the underlier and the underlier sponsor or any other person or entity publishes a substitute underlier that the calculation agent determines is comparable to the underlier and approves as a successor underlier, or if the calculation agent designates a substitute underlier, then the calculation agent will determine the amount payable on the stated maturity date by reference to such successor underlier.

If the calculation agent determines that the publication of the underlier is discontinued and there is no successor underlier, the calculation agent will determine the amount payable on the stated maturity date by a computation methodology that the calculation agent determines will as closely as reasonably possible replicate the underlier.

If the calculation agent determines that the underlier, the underlier stocks or the method of calculating the underlier is changed at any time in any respect - including any split or reverse-split of the underlier and any addition, deletion or substitution and any reweighting or rebalancing of the underlier stocks and whether the change is made by the underlier sponsor under its existing policies or following a modification of those policies, is due to the publication of a successor underlier, is due to events affecting one or more of the underlier stocks or their issuers or is due to any other reason - and is not otherwise reflected in the level of the underlier by the underlier sponsor pursuant to the then-current underlier methodology of the underlier, then the calculation agent will be permitted (but not required) to make such adjustments in the underlier or the method of its calculation as it believes are appropriate to ensure that the final underlier level, used to determine the amount payable on the stated maturity date, is equitable.

All determinations and adjustments to be made by the calculation agent with respect to the underlier may be made by the calculation agent in its sole discretion. The calculation agent is not obligated to make any such adjustments.

Calculation agent: Goldman Sachs & Co. LLC (“GS&Co.”)

Overdue principal rate: the effective Federal Funds rate

PS-7

HYPOTHETICAL EXAMPLES

The following examples are provided for purposes of illustration only. They should not be taken as an indication or prediction of future investment results and merely are intended to illustrate the impact that the various hypothetical underlier levels on the determination date could have on the cash settlement amount at maturity assuming all other variables remain constant.

The examples below are based on a range of final underlier levels that are entirely hypothetical; the underlier level on any day throughout the life of the notes, including the final underlier level on the determination date, cannot be predicted. The underlier has been highly volatile in the past — meaning that the underlier level has changed considerably in relatively short periods — and its performance cannot be predicted for any future period.

The information in the following examples reflects hypothetical rates of return on the offered notes assuming that they are purchased on the original issue date at the face amount and held to the stated maturity date. If you sell your notes in a secondary market prior to the stated maturity date, your return will depend upon the market value of your notes at the time of sale, which may be affected by a number of factors that are not reflected in the examples below, such as interest rates, the volatility of the underlier, the creditworthiness of GS Finance Corp., as issuer, and the creditworthiness of The Goldman Sachs Group, Inc., as guarantor. In addition, the estimated value of your notes at the time the terms of your notes are set on the trade date (as determined by reference to pricing models used by GS&Co.) is less than the original issue price of your notes. For more information on the estimated value of your notes, see “Additional Risk Factors Specific to Your Notes — The Estimated Value of Your Notes At the Time the Terms of Your Notes Are Set On the Trade Date (as Determined By Reference to Pricing Models Used By GS&Co.) Is Less Than the Original Issue Price Of Your Notes” on page PS-12 of this pricing supplement. The information in the examples also reflects the key terms and assumptions in the box below.

Key Terms and Assumptions	
Face amount	\$1,000
Upside participation rate	110%
Neither a market disruption event nor a non-trading day occurs on the originally scheduled determination date	
No change in or affecting any of the underlier stocks or the method by which the underlier sponsor calculates the underlier	
Notes purchased on original issue date at the face amount and held to the stated maturity date	

Moreover, we have not yet set the initial underlier level that will serve as the baseline for determining the underlier return and the amount that we will pay on your notes at maturity. We will not do so until the trade date. As a result, the actual initial underlier level may differ substantially from the underlier level prior to the trade date.

For these reasons, the actual performance of the underlier over the life of your notes, as well as the amount payable at maturity may bear little relation to the hypothetical examples shown below or to the historical underlier levels shown elsewhere in this pricing supplement. For information about the historical levels of the underlier during recent periods, see “The Underlier — Historical Closing Levels of the Underlier” below. Before investing in the offered notes, you should consult publicly available information to determine the levels of the underlier between the date of this pricing

supplement and the date of your purchase of the offered notes.

Also, the hypothetical examples shown below do not take into account the effects of applicable taxes. Because of the U.S. tax treatment applicable to your notes, tax liabilities could affect the after-tax rate of return on your notes to a comparatively greater extent than the after-tax return on the underlier stocks.

The levels in the left column of the table below represent hypothetical final underlier levels and are expressed as percentages of the initial underlier level. The amounts in the right column represent the hypothetical cash settlement amounts, based on the corresponding hypothetical final underlier level, and are expressed as percentages of the face amount of a note (rounded to the nearest one-thousandth of a percent). Thus, a hypothetical cash settlement amount of 100.000% means that the value of the cash payment that we would deliver for each \$1,000 of the outstanding face amount of the offered notes on the stated maturity date would equal 100.000% of the face amount of a note, based on the corresponding hypothetical final underlier level and the assumptions noted above.

PS-8

Hypothetical Final Underlier Level (as Percentage of Initial Underlier Level)	Hypothetical Cash Settlement Amount (as Percentage of Face Amount)
200.000%	210.000%
175.000%	182.500%
150.000%	155.000%
125.000%	127.500%
110.000%	111.000%
103.000%	103.300%
102.000%	102.200%
101.000%	101.100%
100.000%	100.000%
75.000%	100.000%
50.000%	100.000%
25.000%	100.000%
0.000%	100.000%

If, for example, the final underlier level were determined to be 25.000% of the initial underlier level, the cash settlement amount that we would deliver on your notes at maturity would be 100.000% of the face amount of your notes, as shown in the table above. As a result, if you purchased your notes on the original issue date at the face amount and held them to the stated maturity date, you would receive no return on your investment.

The following chart shows a graphical illustration of the hypothetical cash settlement amounts that we would pay on your notes on the stated maturity date, if the final underlier level were any of the hypothetical levels shown on the horizontal axis. The hypothetical cash settlement amounts in the chart are expressed as percentages of the face amount of your notes and the hypothetical final underlier levels are expressed as percentages of the initial underlier level. The chart shows that any hypothetical final underlier level of less than 100.000% (the section left of the 100.000% marker on the horizontal axis) would result in a hypothetical cash settlement amount of 100.000% of the face amount of your notes.

The cash settlement amounts shown above are entirely hypothetical; they are based on market prices for the underlier stocks that may not be achieved on the determination date and on assumptions that may prove to be erroneous. The actual market value of your notes on the stated maturity date or at any other time, including any time you may wish to sell your notes, may bear little relation to the hypothetical cash settlement amounts shown above, and these amounts should not be viewed as an indication of the financial return on an investment in the offered notes. The hypothetical cash settlement amounts on notes held to the stated maturity date in the examples above assume you purchased your notes at their face amount and have not been adjusted to reflect the actual issue price you pay for your notes. The return on your investment (whether positive or negative) in your notes will be affected by the amount you pay for your notes. If you purchase your notes for a price other than the face amount, the return on your investment will differ from, and may be significantly lower than, the hypothetical returns suggested by the above examples. Please read “Additional Risk Factors Specific to the Underlier-Linked Notes — The Market Value of Your Notes May Be Influenced by Many Unpredictable Factors” on page S-25 of the accompanying product supplement no. 1,743.

Payments on the notes are economically equivalent to the amounts that would be paid on a combination of other instruments. For example, payments on the notes are economically equivalent to a combination of an interest-bearing bond bought by the holder and one or more options entered into between the holder and us (with one or more implicit option premiums paid over time). The discussion in this paragraph does not modify or affect the terms of the notes or the U.S. federal income tax treatment of the notes, as described elsewhere in this pricing supplement.

PS-10

We cannot predict the actual final underlier level or what the market value of your notes will be on any particular trading day, nor can we predict the relationship between the underlier level and the market value of your notes at any time prior to the stated maturity date. The actual amount that you will receive at maturity and the rate of return on the offered notes will depend on the actual initial underlier level, which we will set on the trade date, and the actual final underlier level determined by the calculation agent as described above. Moreover, the assumptions on which the hypothetical returns are based may turn out to be inaccurate. Consequently, the amount of cash to be paid in respect of your notes on the stated maturity date may be very different from the information reflected in the examples above.

PS-11

ADDITIONAL RISK FACTORS SPECIFIC TO YOUR NOTES

An investment in your notes is subject to the risks described below, as well as the risks and considerations described in the accompanying prospectus, in the accompanying prospectus supplement, under “Additional Risk Factors Specific to the Notes” in the accompanying general terms supplement no. 1,734 and under “Additional Risk Factors Specific to the Underlier-Linked Notes” in the accompanying product supplement no. 1,743. You should carefully review these risks and considerations as well as the terms of the notes described herein and in the accompanying prospectus, the accompanying prospectus supplement, the accompanying general terms supplement no. 1,734 and the accompanying product supplement no. 1,743. Your notes are a riskier investment than ordinary debt securities. Also, your notes are not equivalent to investing directly in the underlier stocks, i.e., the stocks comprising the underlier to which your notes are linked. You should carefully consider whether the offered notes are suited to your particular circumstances. The Estimated Value of Your Notes At the Time the Terms of Your Notes Are Set On the Trade Date (as Determined By Reference to Pricing Models Used By GS&Co.) Is Less Than the Original Issue Price Of Your Notes

The original issue price for your notes exceeds the estimated value of your notes as of the time the terms of your notes are set on the trade date, as determined by reference to GS&Co.’s pricing models and taking into account our credit spreads. Such estimated value on the trade date is set forth above under “Estimated Value of Your Notes”; after the trade date, the estimated value as determined by reference to these models will be affected by changes in market conditions, the creditworthiness of GS Finance Corp., as issuer, the creditworthiness of The Goldman Sachs Group, Inc., as guarantor, and other relevant factors. The price at which GS&Co. would initially buy or sell your notes (if GS&Co. makes a market, which it is not obligated to do), and the value that GS&Co. will initially use for account statements and otherwise, also exceeds the estimated value of your notes as determined by reference to these models. As agreed by GS&Co. and the distribution participants, this excess (i.e., the additional amount described under “Estimated Value of Your Notes”) will decline to zero on a straight line basis over the period from the date hereof through the applicable date set forth above under “Estimated Value of Your Notes”. Thereafter, if GS&Co. buys or sells your notes it will do so at prices that reflect the estimated value determined by reference to such pricing models at that time. The price at which GS&Co. will buy or sell your notes at any time also will reflect its then current bid and ask spread for similar sized trades of structured notes.

In estimating the value of your notes as of the time the terms of your notes are set on the trade date, as disclosed above under “Estimated Value of Your Notes”, GS&Co.’s pricing models consider certain variables, including principally our credit spreads, interest rates (forecasted, current and historical rates), volatility, price-sensitivity analysis and the time to maturity of the notes. These pricing models are proprietary and rely in part on certain assumptions about future events, which may prove to be incorrect. As a result, the actual value you would receive if you sold your notes in the secondary market, if any, to others may differ, perhaps materially, from the estimated value of your notes determined by reference to our models due to, among other things, any differences in pricing models or assumptions used by others. See “Additional Risk Factors Specific to the Underlier-Linked Notes — The Market Value of Your Notes May Be Influenced by Many Unpredictable Factors” on page S-25 of the accompanying product supplement no. 1,743.

The difference between the estimated value of your notes as of the time the terms of your notes are set on the trade date and the original issue price is a result of certain factors, including principally the underwriting discount and commissions, the expenses incurred in creating, documenting and marketing the notes, and an estimate of the difference between the amounts we pay to GS&Co. and the amounts GS&Co. pays to us in connection with your notes. We pay to GS&Co. amounts based on what we would pay to holders of a non-structured note with a similar maturity. In return for such payment, GS&Co. pays to us the amounts we owe under your notes.

In addition to the factors discussed above, the value and quoted price of your notes at any time will reflect many factors and cannot be predicted. If GS&Co. makes a market in the notes, the price quoted by GS&Co. would reflect any changes in market conditions and other relevant factors, including any deterioration in our creditworthiness or

perceived creditworthiness or the creditworthiness or perceived creditworthiness of The Goldman Sachs Group, Inc. These changes may adversely affect the value of your notes, including the price you may receive for your notes in any market making transaction. To the extent that GS&Co. makes a market in the notes, the quoted price will reflect the estimated value determined by reference to GS&Co.'s pricing models at that time, plus or minus its then current bid and ask spread for similar sized trades of structured notes (and subject to the declining excess amount described above).

Furthermore, if you sell your notes, you will likely be charged a commission for secondary market transactions, or the price will likely reflect a dealer discount. This commission or discount will further reduce the proceeds you would receive for your notes in a secondary market sale.

PS-12

There is no assurance that GS&Co. or any other party will be willing to purchase your notes at any price and, in this regard, GS&Co. is not obligated to make a market in the notes. See “Additional Risk Factors Specific to the Underlier-Linked Notes — Your Notes May Not Have an Active Trading Market” on page S-24 of the accompanying product supplement no. 1,743.

The Notes Are Subject to the Credit Risk of the Issuer and the Guarantor

Although the return on the notes will be based on the performance of the underlier, the payment of any amount due on the notes is subject to the credit risk of GS Finance Corp., as issuer of the notes, and the credit risk of The Goldman Sachs Group, Inc. as guarantor of the notes. The notes are our unsecured obligations. Investors are dependent on our ability to pay all amounts due on the notes, and therefore investors are subject to our credit risk and to changes in the market’s view of our creditworthiness. Similarly, investors are dependent on the ability of The Goldman Sachs Group, Inc., as guarantor of the notes, to pay all amounts due on the notes, and therefore are also subject to its credit risk and to changes in the market’s view of its creditworthiness. See “Description of the Notes We May Offer — Information About Our Medium-Term Notes, Series E Program — How the Notes Rank Against Other Debt” on page S-4 of the accompanying prospectus supplement and “Description of Debt Securities We May Offer — Guarantee by The Goldman Sachs Group, Inc.” on page 42 of the accompanying prospectus.

The Amount Payable on Your Notes Is Not Linked to the Level of the Underlier at Any Time Other Than the Determination Date

The final underlier level will be based on the closing level of the underlier on the determination date (subject to adjustment as described elsewhere in this pricing supplement). Therefore, if the closing level of the underlier dropped precipitously on the determination date, the cash settlement amount for your notes may be significantly less than it would have been had the cash settlement amount been linked to the closing level of the underlier prior to such drop in the level of the underlier. Although the actual level of the underlier on the stated maturity date or at other times during the life of your notes may be higher than the final underlier level, you will not benefit from the closing level of the underlier at any time other than on the determination date.

Also, the market price of your notes prior to the stated maturity date may be significantly lower than the purchase price you pay for your notes. Consequently, if you sell your notes before the stated maturity date, you may receive far less than the amount of your investment in the notes.

Your Notes Do Not Bear Interest

You will not receive any interest payments on your notes. As a result, even if the cash settlement amount payable for your notes on the stated maturity date exceeds the face amount of your notes, the overall return you earn on your notes may be less than you would have earned by investing in a non-indexed debt security of comparable maturity that bears interest at a prevailing market rate.

You Have No Shareholder Rights or Rights to Receive Any Underlier Stock

Investing in your notes will not make you a holder of any of the underlier stocks. Neither you nor any other holder or owner of your notes will have any rights with respect to the underlier stocks, including any voting rights, any right to receive dividends or other distributions, any rights to make a claim against the underlier stocks or any other rights of a holder of the underlier stocks. Your notes will be paid in cash and you will have no right to receive delivery of any underlier stocks.

We May Sell an Additional Aggregate Face Amount of the Notes at a Different Issue Price

At our sole option, we may decide to sell an additional aggregate face amount of the notes subsequent to the date of this pricing supplement. The issue price of the notes in the subsequent sale may differ substantially (higher or lower) from the original issue price you paid as provided on the cover of this pricing supplement.

If You Purchase Your Notes at a Premium to Face Amount, the Return on Your Investment Will Be Lower Than the Return on Notes Purchased at Face Amount and the Impact of Certain Key Terms of the Notes Will Be Negatively Affected

The cash settlement amount will not be adjusted based on the issue price you pay for the notes. If you purchase notes at a price that differs from the face amount of the notes, then the return on your investment in such notes held to the stated maturity date will differ from, and may be substantially less than, the return on notes purchased at face amount. If you purchase your notes at a premium to face amount and hold them to the stated maturity date, the return on your investment in the notes will be lower than it would have been had you purchased the notes at face amount or a discount to face amount.

PS-13

Notwithstanding That the Title of the Underlier Includes the Phrase “Risk Control,” the Underlier May Decrease Significantly More or Increase Significantly Less Than the Total Return Index

The underlier, through the S&P 500[®] Daily Risk Control 10% USD Total Return Index (Risk Control index), is intended to provide investors with exposure to the S&P 500[®] Total Return Index (Total Return index) subject to a risk control strategy that dynamically increases or decreases the exposure to the Total Return index in an attempt to achieve a 10% volatility target. The Risk Control index’s exposure to the Total Return index can be greater than, less than or equal to 100%. The performance of the underlier is not taken into account when implementing the risk control strategy and could result in leveraged exposure to the Total Return index in a falling stock market or deleveraged exposure to the Total Return index in a rising stock market. Additionally, the underlier is the excess return version of the Risk Control index. As an excess return index, the underlier is designed to measure the return on a hypothetical investment in the Risk Control index that is made with hypothetically borrowed funds. Borrowing costs for these funds are assessed at a rate of overnight U.S. dollar LIBOR. Any positive performance of the Risk Control index will be offset by such hypothetical borrowing costs. Therefore, although the title of the underlier includes the phrase “Risk Control,” the underlier may decrease significantly more or increase significantly less than the Total Return index and your notes are not necessarily less risky than, and will not necessarily have better returns than, notes linked to the Total Return index. See “Comparative Performance of the Excess Return Index, the Risk Control Index and the Total Return Index” below for a comparison of the historical performance of the underlier relative to the Risk Control index and the Total Return index.

The Return on Your Notes is Based on an Underlier That Reflects Excess Return and Will Be Reduced By Borrowing Costs at the Underlier Level

The underlier is the excess return version of the Risk Control index, meaning that it is designed to measure the return on a hypothetical investment in the Risk Control index that is made with hypothetically borrowed funds. Borrowing costs for these funds are assessed at a rate of overnight U.S. dollar LIBOR. Such costs will reduce any positive performance of the Risk Control index (and, thereby, the underlier) and will increase any negative performance of the Risk Control index (and, thereby, the underlier). In order to receive a positive return on your notes, the return of the Risk Control index must exceed the borrowing costs at the underlier level. Because the return of the underlier is equal to the return of the Risk Control index minus borrowing costs, the return of the underlier will always be less than the return of the Risk Control index. See “Comparative Performance of the Excess Return Index, the Risk Control Index and the Total Return Index” below for a comparison of the historical performance of the underlier relative to the Risk Control index and the Total Return index.

There Is No Assurance that Calculating Realized Volatility as the Greater of Short-Term Volatility and Long-Term Volatility Is the Best Way to Measure Realized Volatility

With regard to the Risk Control index, “realized volatility” is a measurement of variations in the historical daily returns of the Total Return index from the day that is two Risk Control index calculation days before the inception date (May 13, 2009) of the Risk Control index to the day that is two Risk Control index calculation days before the current Risk Control index calculation day. As a result, the measurement period for realized volatility will always have the same start date and will continue to get longer with each new Risk Control Index calculation day. Realized volatility is calculated as the greater of short-term volatility and long-term volatility. When the volatility of the Total Return index increases (or decreases), short-term volatility will increase (or decrease) more quickly than long-term volatility. Because realized volatility is the greater of short-term volatility and long-term volatility, realized volatility will increase quickly when volatility increases, which will quickly reduce exposure to the Total Return index. Conversely, because realized volatility is the greater of short-term volatility and long-term volatility, realized volatility will decrease slowly when volatility decreases, which in turn will gradually increase exposure to the Total Return index. There is no assurance that calculating realized volatility as the greater of short-term volatility and long-term volatility

or using a measurement period with a set start date that continues to get longer with each new Risk Control index calculation day is the best way to measure realized volatility. It is possible that exclusively relying on short-term volatility or long-term volatility or on the lesser of short-term volatility and long-term volatility is a more reliable way to measure realized volatility.

The Underlier Will Not Reflect the Most Current Volatility of the Total Return Index

The Risk Control index is rebalanced using a leverage factor at the close of each Risk Control index calculation day in order to adjust its exposure to the Total Return index based on the applicable realized volatility. Although the Risk Control index is rebalanced at the close of each Risk Control index calculation day, because of how the leverage factor is calculated, there is a lag of two Risk Control index calculation days between the

PS-14

calculation of the leverage factor and the rebalancing of the Risk Control index in accordance with that leverage factor. Therefore, on any given Risk Control index calculation day, the leverage factor that determines the Risk Control index's exposure to the Total Return index for such Risk Control index calculation day will be based on the realized volatility of the Total Return index from two Risk Control index calculation days prior. Due to this two-day lag and the fact that realized volatility can fluctuate significantly during this period, and even during a single day, the Risk Control index will not be rebalanced to reflect (and therefore the underlier will not reflect) the realized volatility of the Total Return index as of the rebalancing day and will not have an actual volatility of 10%. As a result, if there is a rapid and severe decline in the level of the Total Return index, due to the two-day lag, the Risk Control index may not rebalance into the hypothetical cash position until the underlier has declined by a substantial amount.

There Is No Guarantee that the Underlier Will Achieve the 10% Volatility Target

The exposure of the Risk Control index (and therefore the underlier) to the Total Return index is subject to a maximum leverage factor of 150%, which may limit the ability of the Risk Control index (and therefore the underlier) to fully achieve a volatility target of 10% if achieving such volatility target would require a leverage factor in excess of 150%. Therefore, there is no guarantee that the Risk Control index (and therefore the underlier) will achieve the 10% volatility target.

You May be Exposed to Borrowing Costs at the Risk Control Index Level

The exposure of the Risk Control index to the Total Return index can be greater than, less than or equal to 100%. Exposure in excess of 100% (i.e., leverage) is achieved by hypothetically borrowing cash at a rate of overnight U.S. dollar LIBOR for the exposure above 100%. As leverage increases, borrowing costs increase.

The cost of borrowing is ignored when determining leverage above 100% (subject to a maximum leverage factor of 150%), even if a prudent investor would choose not to borrow money to invest in the Total Return index at such time. The cost of borrowing may exceed the returns from the Total Return index if the return of the Total Return index decreases or if the rate of the overnight U.S. dollar LIBOR increases (or both). Since May 1, 2012 (when the information first became publicly available), the Risk Control index's exposure to the Total Return index has been as high as 150% (the maximum exposure).

Controlled Volatility Does Not Mean the Underlier Will Have Lower Volatility than the Total Return Index

The underlier, through the Risk Control index, employs a risk-control strategy that uses mathematical equations to target 10% volatility. The strategy does not have a goal of achieving lower volatility than the Total Return index. In fact, if the realized volatility of the Total Return index is less than the volatility target of 10%, the exposure to the Total Return index will be increased in an attempt to raise the volatility of the Risk Control index to 10%. Any time the exposure to the Total Return index is greater than 100%, the Risk Control index would be more volatile than the Total Return index.

Low Volatility Does Not Necessarily Mean the Risk Control Index Will Outperform the Total Return Index or that the Underlier Will Have Positive Performance

The underlier, through the Risk Control index, employs a risk-control strategy that uses mathematical equations to target 10% volatility. Even if the Risk Control index achieves its 10% volatility target, there is no guarantee that the Risk Control index will outperform the Total Return index or that the index return will be positive. For example, if the performance of the Total Return index remains stable or steadily decreases over time, the 10% volatility target will not cause the Risk Control index to outperform the Total Return index or result in a positive Risk Control index return. Moreover, the index return will be less than the Risk Control index return due to its excess return feature and the

borrowing costs thereof. See “Comparative Performance of the Excess Return Index, the Risk Control Index and the Total Return Index” below for a comparison of the historical performance of the underlier relative to the Risk Control index and the Total Return index.

There May Be Overexposure to the Total Return Index in Falling Stock Markets or Underexposure in Rising Stock Markets

The underlier, through the Risk Control index, is designed to achieve a volatility target of 10% regardless of the direction of price movements in the market. Therefore, in rising stock markets if realized volatility is higher than the volatility target, some of the Risk Control index’s exposure (and therefore the underlier’s exposure) will be

PS-15

moved from the Total Return index to the hypothetical cash position, and the Risk Control index (and therefore the underlier) will experience lower returns than if the full exposure was maintained in the Total Return index. In contrast, if realized volatility is less than the volatility target in a falling stock market, the Risk Control index (and therefore the underlier) will be exposed to more than 100% of the losses in the Total Return index and the Risk Control index (and therefore the underlier) will experience lower returns than the Total Return index. The hypothetical cash position has represented a very significant portion, up to 67%, of the Risk Control index in the past. Any rebalancing into a hypothetical cash position will limit your return on the notes.

The Exposure to the Total Return Index May Be Rebalanced into a Hypothetical Cash Position on Any or All Days During the Term of the Notes

The underlier, through the Risk Control index, has a daily rebalancing feature which can result in a rebalancing between the exposure to the Total Return index and the hypothetical cash position. This could have the effect of reducing the exposure of the Total Return index to less than 100% in an attempt to reduce the volatility to 10%. The minimum leverage factor is 0%. Therefore, there is no guarantee that the Risk Control index will not be rebalanced so that the hypothetical cash position represents a significant portion of the Risk Control index (up to 100% of the underlier). Any rebalancing into a hypothetical cash position will limit your return on the notes.

Since May 1, 2012 (when the information first became publicly available), on average, approximately 13% of the Risk Control index's exposure has been to the hypothetical cash position. The Risk Control index's exposure to the Total Return index has been as low as approximately 33% (an approximately 67% exposure to the hypothetical cash position).

The Historical Levels of Overnight U.S. Dollar LIBOR Are Not an Indication of the Future Levels of Overnight U.S. Dollar LIBOR

In the past, the level of overnight U.S. dollar LIBOR has experienced significant fluctuations. You should note that historical levels, fluctuations and trends of overnight U.S. dollar LIBOR is not necessarily indicative of future levels. Any historical upward or downward trend in overnight U.S. dollar LIBOR is not an indication that overnight U.S. dollar LIBOR is more or less likely to increase or decrease at any time, and you should not take the historical levels of overnight U.S. dollar LIBOR as an indication of its future performance.

U.K. Regulators Will No Longer Persuade or Compel Banks to Submit Rates for Calculation of LIBOR After 2021; Interest Rate Benchmark May Be Discontinued

On July 27, 2017, the Chief Executive of the U.K. Financial Conduct Authority (FCA), which regulates LIBOR, announced that the FCA will no longer persuade or compel banks to submit rates for the calculation of LIBOR (which includes overnight U.S. dollar LIBOR) after 2021. Such announcement indicates that the continuation of LIBOR on the current basis cannot and will not be guaranteed after 2021. Notwithstanding the foregoing, it appears highly likely that LIBOR will be discontinued or modified by 2021. It is not possible to predict the effect that this announcement or any such discontinuance or modification will have on overnight U.S. dollar LIBOR, the underlier or your notes.

Regulation and Reform of "Benchmarks", Including LIBOR and Other Types of Benchmarks, May Cause such "Benchmarks" to Perform Differently Than in the Past, or to Disappear Entirely, or Have Other Consequences Which Cannot be Predicted

LIBOR and other interest rate, equity, foreign exchange rate and other types of indices which are deemed to be "benchmarks" are the subject of recent national, international and other regulatory guidance and proposals for reform. Some of these reforms are already effective while others are still to be implemented. These reforms may cause such

“benchmarks” to perform differently than in the past, or to disappear entirely, or have other consequences which cannot be predicted. Any such consequence could have a material adverse effect on your notes.

Any of the international, national or other proposals for reform or the general increased regulatory scrutiny of “benchmarks” could increase the costs and risks of administering or otherwise participating in the setting of a “benchmark” and complying with any such regulations or requirements. Such factors may have the effect of discouraging market participants from continuing to administer or contribute to certain “benchmarks”, trigger changes in the rules or methodologies used in certain “benchmarks” or lead to the disappearance of certain “benchmarks”. The disappearance of a “benchmark” or changes in the manner of administration of a “benchmark” could result in discretionary valuation by the underlier sponsor or the calculation agent or other consequence in

PS-16

relation to your notes. Any such consequence could have a material adverse effect on the value of and return on your notes.

Your Notes Will Be Treated as Debt Instruments Subject to Special Rules Governing Contingent Payment Debt Instruments for U.S. Federal Income Tax Purposes

The notes will be treated as debt instruments subject to special rules governing contingent payment debt instruments for U.S. federal income tax purposes. If you are a U.S. individual or taxable entity, you generally will be required to pay taxes on ordinary income from the notes over their term based on the comparable yield for the notes, even though you will not receive any payments from us until maturity. This comparable yield is determined solely to calculate the amount on which you will be taxed prior to maturity and is neither a prediction nor a guarantee of what the actual yield will be. In addition, any gain you may recognize on the sale, exchange or maturity of the notes will be taxed as ordinary interest income. If you are a secondary purchaser of the notes, the tax consequences to you may be different. Please see “Supplemental Discussion of Federal Income Tax Consequences” below for a more detailed discussion. Please also consult your tax advisor concerning the U.S. federal income tax and any other applicable tax consequences to you of owning your notes in your particular circumstances.

Foreign Account Tax Compliance Act (FATCA) Withholding May Apply to Payments on Your Notes, Including as a Result of the Failure of the Bank or Broker Through Which You Hold the Notes to Provide Information to Tax Authorities

Please see the discussion under “United States Taxation — Taxation of Debt Securities — Foreign Account Tax Compliance Act (FATCA) Withholding” in the accompanying prospectus for a description of the applicability of FATCA to payments made on your notes. The discussion in that section is hereby modified to reflect regulations proposed by the Treasury Department indicating its intent to eliminate the requirements under FATCA of withholding on gross proceeds from the sale, exchange, maturity or other disposition of relevant financial instruments. The Treasury Department has indicated that taxpayers may rely on these proposed regulations pending their finalization.

THE UNDERLIER

The S&P 500[®] Daily Risk Control 10% USD Excess Return Index (the “Excess Return index”) is the excess return version of the S&P 500[®] Daily Risk Control 10% USD Total Return Index (the “Risk Control index”), meaning that the Excess Return index is designed to measure the return on a hypothetical investment in the Risk Control index borrowed at the overnight U.S. dollar LIBOR rate. Any percentage increase in the Risk Control index will be offset by the overnight U.S. dollar LIBOR rate. See “U.K. Regulators Will No Longer Persuade or Compel Banks to Submit Rates for Calculation of LIBOR After 2021; Interest Rate Benchmark May Be Discontinued” and “Regulation and Reform of “Benchmarks”, Including LIBOR and Other Types of Benchmarks, May Cause such “Benchmarks” to Perform Differently Than in the Past, or to Disappear Entirely, or Have Other Consequences Which Cannot be Predicted” for more information about overnight U.S. dollar LIBOR.

The Risk Control index is intended to provide investors with exposure to the S&P 500[®] Total Return Index (the “Total Return index”) subject to a risk control strategy that dynamically increases or decreases the exposure to the Total Return index in an attempt to achieve a 10% volatility target. The Risk Control index’s exposure to the Total Return index can be greater than, less than or equal to 100%. Exposure in excess of 100% is achieved by hypothetically borrowing cash at a rate of overnight U.S. dollar LIBOR. Exposure of less than 100% is achieved by hypothetically selling some of the exposure to the Total Return index, which results in a hypothetical cash position that accrues interest at the overnight U.S. LIBOR rate. Notwithstanding that the title of each of the Excess Return index and the Risk Control index includes the phrase “Risk Control”, the Excess Return index and the Risk Control index may decrease significantly more or increase significantly less than the Total Return index.

The Total Return index is a total return-based calculation of the S&P 500[®] Index. The S&P 500[®] Index includes a representative sample of 500 leading companies in leading industries of the U.S. economy.

The Excess Return index, the Risk Control index, the Total Return index and the S&P 500[®] Index are calculated, maintained and published by S&P Dow Jones Indices LLC (“S&P”). Additional information about the Excess Return index, the Risk Control index, the Total Return index, and the S&P 500[®] Index is available on the following websites: us.spindices.com/indices/strategy/sp-500-daily-risk-control-10-usd-excess-return-index, us.spindices.com/indices/strategy/sp-500-low-volatility-daily-risk-control-10-usd-total-return-index, us.spindices.com/indices/equity/sp-500 and spji.com. We are not incorporating by reference the websites or any material they include in this pricing supplement.

As of February 28, 2019, the companies included in the Excess Return index were divided into eleven Global Industry Classification Sectors (“GICS”). The GICS include (with the approximate percentage currently included in such sectors indicated in parentheses): Communication Services (10.1%), Consumer Discretionary (9.9%), Consumer Staples (7.1%), Energy (5.4%), Financials (13.3%), Health Care (14.8%), Industrials (9.8%), Information Technology (20.6%), Materials (2.7%), Real Estate (3%) and Utilities (3.3%). (Sector designations are determined by the Excess Return index sponsor using criteria it has selected or developed. Index sponsors may use very different standards for determining sector designations. In addition, many companies operate in a number of sectors, but are listed in only one sector and the basis on which that sector is selected may also differ. As a result, sector comparisons between indices with different index sponsors may reflect differences in methodology as well as actual differences in the sector composition of the indices.) As of the close of business on September 21, 2018, S&P and MSCI, Inc. updated the Global Industry Classification Sector structure. Among other things, the update broadened the Telecommunications Services sector and renamed it the Communication Services sector. The renamed sector includes the previously existing Telecommunication Services Industry group, as well as the Media Industry group, which was moved from the Consumer Discretionary sector and renamed the Media & Entertainment Industry group. The Media & Entertainment Industry group contains three industries: Media, Entertainment and Interactive Media & Services. The Media industry continues to consist of the Advertising, Broadcasting, Cable & Satellite and Publishing sub-industries. The

Entertainment industry contains the Movies & Entertainment sub-industry (which includes online entertainment streaming companies in addition to companies previously classified in such industry prior to September 21, 2018) and the Interactive Home Entertainment sub-industry (which includes companies previously classified in the Home Entertainment Software sub-industry prior to September 21, 2018 (when the Home Entertainment Software sub-industry was a sub-industry in the Information Technology sector)), as well as producers of interactive gaming products, including mobile gaming applications). The Interactive Media & Services industry and sub-industry includes companies engaged in content and information creation or distribution through proprietary platforms, where revenues are derived primarily through pay-per-click advertisements, and includes search engines, social media and networking platforms, online classifieds and online review companies. The Global Industry Classification Sector structure changes are effective for the S&P 500[®] Daily

PS-18

Risk Control 10% USD Excess Return Index as of the open of business on September 24, 2018 to coincide with the September 2018 quarterly rebalancing.

The Excess Return index has a launch date of May 13, 2009, with a base value of 100 as of its base date, December 31, 1990.

The S&P 500[®] Daily Risk Control 10% USD Excess Return Index

The Excess Return index is the excess return version of the Risk Control index. The Excess Return index is designed to measure the return on a hypothetical investment in the Risk Control index that is made with borrowed funds. Borrowing costs are assessed at a rate of overnight U.S. dollar LIBOR. Such costs will reduce any positive index return and will increase any negative index return. The level of the Excess Return index on an index calculation day (“T”) is equal to the product of (a) the level of the Excess Return index on the previous index calculation day (“T – 1”) multiplied by (b) (i) the return of the Risk Control index on the Excess Return index calculation day (“T”) minus (ii) the borrowing costs.

The S&P 500[®] Daily Risk Control 10% USD Total Return Index

The Risk Control index is designed to measure the return on a hypothetical investment in the Total Return index that dynamically increases or decreases its exposure to the Total Return index in an attempt to achieve a 10% volatility target (the “volatility target”). While the Risk Control index is designed to achieve a stable level of volatility, there can be no assurance that the Risk Control index will achieve this goal.

The return on the Risk Control index consists of two components: (1) the exposure to the Total Return index, which may be greater than (but not greater than 150%), less than (as low as zero) or equal to 100% of the daily return of the Total Return index, and (2) an interest cost or gain. An exposure greater than 100% of the daily return of the Total Return index is a leveraged position where the exposure to the Total Return index is increased by hypothetically borrowing cash (and paying interest on such cash as described below) and investing such cash in the Total Return index. An exposure less than 100% of the daily return of the Total Return index is a deleveraged position where the exposure to the Total Return index is decreased by hypothetically selling some of the exposure, which results in a hypothetical cash position that accrues interest. An exposure equal to 100% of the daily return of the Total Return index has the same daily return as the Total Return index. Interest cost accrues on the amount of any hypothetical borrowed cash and interest gain accrues on the amount of any hypothetical cash position. The rate of overnight U.S. dollar LIBOR is used to calculate the interest cost or gain. The Excess Return index sponsor may use other successor interest rates if overnight U.S. dollar LIBOR is unavailable, and a 360-day year is assumed for the interest calculations in accordance with U.S. banking practices.

Each Risk Control index calculation day (“T”), the Excess Return index sponsor calculates the “leverage factor”, which determines whether the exposure to the Total Return index should be greater than, less than or equal to 100% of the daily return of the Total Return index for the following Risk Control index calculation day (“T + 1”). The leverage factor is a ratio of the target volatility level (of 10%) to the “realized volatility” (as defined below) for the second preceding Risk Control index calculation day (“T - 2”), subject to a maximum leverage factor of 150% and a minimum leverage factor of 0%. For example, if on the second preceding Risk Control index calculation day the realized volatility were equal to 8%, on the Risk Control index calculation day the leverage factor would be equal to 125% (10% divided by 8%) and on the following Risk Control index calculation day the Risk Control index would be exposed to 125% of the daily return of the Total Return index.

Although the Risk Control index is rebalanced at the close of each Risk Control index calculation day, because of how the leverage factor is calculated, there is a lag of two Risk Control index calculation days between the calculation of

the leverage factor and the rebalancing of the Risk Control index in accordance with that leverage factor. Therefore, on any given Risk Control index calculation day, the leverage factor that determined the Risk Control index's exposure to the Total Return index for such Risk Control index calculation day was based on the realized volatility of the Total Return index from two Risk Control index calculation days prior.

“Realized volatility” is a measurement of variations in the historical daily returns of the Total Return index. Realized volatility is calculated as the greater of short-term volatility and long-term volatility. Both short-term volatility and long-term volatility are calculated based on the historical daily returns over the same time period (from the day that is two Risk Control index calculation days before the inception date (May 13, 2009) of the Risk Control index to the day that is two Risk Control index calculation days before the current Risk Control index calculation

PS-19

day) and both apply and gradually increase a discount that gradually reduces the significance of a given historical daily return as it moves farther into the past. However, short-term volatility applies a larger discount than does long-term volatility. The discount for short-term volatility is slightly more than double the discount for long-term volatility. As a result, the 10 most recent Risk Control index calculation days account for approximately 50% of the weighting when determining short-term volatility, while the 23 most recent Risk Control index calculation days account for approximately 50% of the weighting when determining long-term volatility. The short-term realized volatility calculation and the long-term realized volatility calculations differ only in that the long-term volatility calculation places 50% of the calculation weighting on an additional 13 days.

When the volatility of the Total Return index increases (or decreases), short-term volatility will increase (or decrease) more quickly than long-term volatility. Because realized volatility is the greater of short-term volatility and long-term volatility, realized volatility will increase quickly when volatility increases, which will quickly reduce exposure to the Total Return index. Conversely, because realized volatility is the greater of short-term volatility and long-term volatility, realized volatility will decrease slowly when volatility decreases, which in turn will gradually increase exposure to the Total Return index.

If realized volatility is less than the volatility target, the leverage factor will be greater than one and the exposure to the daily return of the Total Return index will be greater than 100%. As a result, interest costs will be incurred for the exposure greater than 100% at the rate of overnight U.S. dollar LIBOR. For example, if the realized volatility is 8%, the leverage factor will be 125% (i.e., 10 divided by 8 = 125%). In this case, the Risk Control index would be exposed to 125% of the daily return of the Total Return index, and interest cost will be assessed for the 25% exposure above 100%. If realized volatility is greater than the volatility target, the leverage factor will be less than one and the exposure to the daily return of the Total Return index will be less than 100%. As a result, exposure will be moved to the cash position, which will accrue interest at the rate of overnight U.S. dollar LIBOR. For example, if the realized volatility is 12%, the leverage factor will be approximately 83% (i.e., 10 divided by 12 = approximately 83%). In this case, the Risk Control index would be exposed to approximately 83% of the daily return of the Total Return index, plus the interest gain on the 17% of exposure that is moved to the cash position. If realized volatility is equal to the volatility target, the leverage factor will be equal to one and exposure to the daily return of the Total Return index will be equal to 100% and there will be no interest cost or gain.

Since May 1, 2012 (when the information first became publicly available), on average, approximately 13% of the Risk Control index's exposure has been to the hypothetical cash position. The Risk Control index's exposure to the Total Return index has been as low as approximately 33% (an approximately 67% exposure to the hypothetical cash position) and as high as 150% (the maximum exposure).

The Total Return Index

The Total Return index is a total return-based calculation of the S&P 500® Index. The total return construction reflects both movements in stock prices and the reinvestment of dividend income. The Total Return index represents the total return earned in a portfolio that tracks the S&P 500® Index and reinvests dividend income in the overall index, not in the specific stock paying the dividend.

The total return construction builds the Total Return index from the price return version of the S&P 500® Index but accounts for daily total dividend returns. The first step is to calculate the total dividend paid on a given day and convert that figure into price index points. A total daily dividend amount is calculated as the aggregate of (a) the number of shares of each stock in the S&P 500® Index times (b) the dividend per share paid for such stock. This calculation is performed for each trading day. The dividend per share for a stock is generally zero except for four times a year when it goes ex-dividend for the quarterly dividend payment. Some stocks included in the S&P 500® Index do not pay dividends and this amount always remains zero. Ordinary cash dividends are applied on the

ex-dividend date in calculating the total return index. The Total Return index reflects both ordinary and special cash dividends. “Special dividends” are those dividends that are outside of the normal payment pattern established historically by the issuing company. These may be described by the company as “special,” “extra,” “year-end” or “return of capital.” Whether a dividend is funded from operating earnings or from other sources of cash does not affect the determination of whether it is ordinary or special. S&P Dow Jones Indices will generally consider the third consecutive instance of a non-ordinary dividend (in terms of timing, not amount) to be ordinary for index calculation purposes as a third consecutive instance will now be considered to be part of the normal payment pattern established by the company. As discussed under “The S&P 500® Index” below, special dividends are treated as corporate actions with offsetting price and divisor adjustments.

PS-20

The total daily dividend amount calculated above is converted to index points by dividing such amount by the divisor for the price return version of the S&P 500[®] Index. The daily total return for the Total Return index is then determined by calculating (a) the sum of (i) the level of the price return version of the S&P 500[®] Index on that day plus (ii) the index points reflecting the total daily dividend amount on such day divided by (b) the level of the price return version of the S&P 500[®] Index for the previous day minus (c) one. The daily total return is used to update the Total Return index level from one day to the next by calculating the product of (a) the level of the Total Return index from the previous day times (b) the sum of (i) one plus (ii) the daily total return for the given day.

The S&P 500[®] Index

The S&P 500[®] Index includes a representative sample of 500 companies in leading industries of the U.S. economy. The 500 companies are not the 500 largest companies listed on the NYSE and not all 500 companies are listed on the NYSE. S&P chooses companies for inclusion in the S&P 500[®] Index with an aim of achieving a distribution by broad industry groupings that approximates the distribution of these groupings in the common stock population of the U.S. equity market. Although the S&P 500[®] Index contains 500 constituent companies, at any one time it may contain greater than 500 constituent trading lines since some companies included in the S&P 500[®] Index prior to July 31, 2017 may be represented by multiple share class lines in the S&P 500[®] Index. The S&P 500[®] Index is calculated, maintained and published by S&P.

S&P intends for the S&P 500[®] Index to provide a performance benchmark for the large-cap U.S. equity markets. Constituent changes are made on an as-needed basis and there is no schedule for constituent reviews. Constituent changes are generally announced one to five business days prior to the change. Relevant criteria for additions to the S&P 500[®] Index that are employed by S&P include: the company proposed for addition should have an unadjusted company market capitalization of \$6.1 billion or more (for spin-offs, eligibility is determined using when-issued prices, if available); using composite pricing and volume, the ratio of annual dollar value traded in the proposed constituent to float-adjusted market capitalization of that company should be 1.00 or greater and the stock should trade a minimum of 250,000 shares in each of the six months leading up to the evaluation date; the company must be a U.S. company (characterized as a Form 10-K filer with its U.S. portion of fixed assets and revenues constituting a plurality of the total and with a primary listing of the common stock on the NYSE, NYSE Arca, NYSE American (formerly NYSE MKT), NASDAQ Global Select Market, NASDAQ Select Market, NASDAQ Capital Market, Bats BZX, Bats BYX, Bats EDGA, Bats EDGX or IEX (each, an “eligible exchange”)); the proposed constituent has a public float of 50% or more of its stock; the inclusion of the company will contribute to sector balance in the S&P 500[®] Index relative to sector balance in the market in the relevant market capitalization range; financial viability (the sum of the most recent four consecutive quarters’ Generally Accepted Accounting Principles (GAAP) earnings (net income excluding discontinued operations) should be positive as should the most recent quarter); and, for IPOs, the company must be traded on an eligible exchange for at least twelve months. In addition, constituents of the S&P MidCap 400[®] Index and the S&P SmallCap 600[®] Index can be added to the S&P 500[®] Index without meeting the financial viability, public float and/or liquidity eligibility criteria if the S&P Index Committee decides that such an addition will enhance the representativeness of the S&P 500[®] Index as a market benchmark. Certain types of organizational structures and securities are always excluded, including business development companies (BDCs), limited partnerships, master limited partnerships, limited liability companies (LLCs), OTC bulletin board issues, closed-end funds, ETFs, ETNs, royalty trusts, tracking stocks, preferred stock and convertible preferred stock, unit trusts, equity warrants, convertible bonds, investment trusts, rights and American depositary receipts (ADRs). Stocks are deleted from the S&P 500[®] Index when they are involved in mergers, acquisitions or significant restructurings such that they no longer meet the inclusion criteria, and when they substantially violate one or more of the addition criteria. Stocks that are delisted or moved to the pink sheets or the bulletin board are removed, and those that experience a trading halt may be retained or removed in S&P’s discretion. S&P evaluates additions and deletions with a view to maintaining S&P 500[®] Index continuity.

For constituents included in the S&P 500[®] Index prior to July 31, 2017, all publicly listed multiple share class lines are included separately in the S&P 500[®] Index, subject to, in the case of any such share class line, that share class line satisfying the liquidity and float criteria discussed above and subject to certain exceptions. It is possible that one listed share class line of a company may be included in the S&P 500[®] Index while a second listed share class line of the same company is excluded. For companies that issue a second publicly traded share class to index share class holders, the newly issued share class line is considered for inclusion if the event is mandatory and the market capitalization of the distributed class is not considered to be de minimis.

As of July 31, 2017, companies with multiple share class lines are no longer eligible for inclusion in the S&P 500[®] Index. Constituents of the S&P 500[®] Index prior to July 31, 2017 with multiple share class lines will be

PS-21

grandfathered in and continue to be included in the S&P 500[®] Index. If an S&P 500[®] Index constituent reorganizes into a multiple share class line structure, that company will be reviewed for continued inclusion in the S&P 500[®] Index at the discretion of the S&P Index Committee.

Calculation of the S&P 500[®] Index

The S&P 500[®] Index is calculated using a base-weighted aggregative methodology. The value of the S&P 500[®] Index on any day for which an index value is published is determined by a fraction, the numerator of which is the aggregate of the market price of each stock in the S&P 500[®] Index times the number of shares of such stock included in the S&P 500[®] Index, and the denominator of which is the divisor, which is described more fully below. The “market value” of any index stock is the product of the market price per share of that stock times the number of the then-outstanding shares of such index stock that are then included in the S&P 500[®] Index.

The S&P 500[®] Index is also sometimes called a “base-weighted aggregative index” because of its use of a divisor. The “divisor” is a value calculated by S&P that is intended to maintain conformity in index values over time and is adjusted for all changes in the index stocks’ share capital after the “base date” as described below. The level of the S&P 500[®] Index reflects the total market value of all index stocks relative to the S&P 500[®] Index’s base date of 1941-43.

In addition, the S&P 500[®] Index is float-adjusted, meaning that the share counts used in calculating the S&P 500[®] Index reflect only those shares available to investors rather than all of a company’s outstanding shares. S&P seeks to exclude shares held by certain shareholders concerned with the control of a company, a group that generally includes the following: officers and directors and related individuals whose holdings are publicly disclosed, private equity, venture capital, special equity firms, publicly traded companies that hold shares for control in another company, strategic partners, holders of restricted shares, employee stock ownership plans, employee and family trusts, foundations associated with the company, holders of unlisted share classes of stock, government entities at all levels (except government retirement or pension funds) and any individual person listed as a 5% or greater stakeholder in a company as reported in regulatory filings (collectively, “control holders”). To this end, S&P excludes all share-holdings (other than depositary banks, pension funds, mutual funds, exchange traded fund providers, 401(k) plans of the company, government retirement and pension funds, investment funds of insurance companies, asset managers and investment funds, independent foundations, savings plans and investment plans) with a position greater than 5% of the outstanding shares of a company from the float-adjusted share count to be used in S&P 500[®] Index calculations.

The exclusion is accomplished by calculating an Investable Weight Factor (IWF) for each stock that is part of the numerator of the float-adjusted index fraction described above:

$$\text{IWF} = (\text{available float shares})/(\text{total shares outstanding})$$

where available float shares is defined as total shares outstanding less shares held by control holders. In most cases, an IWF is reported to the nearest one percentage point. For companies with multiple share class lines, a separate IWF is calculated for each share class line.

Maintenance of the S&P 500[®] Index

In order to keep the S&P 500[®] Index comparable over time S&P engages in an index maintenance process. The S&P 500[®] Index maintenance process involves changing the constituents as discussed above, and also involves maintaining quality assurance processes and procedures, adjusting the number of shares used to calculate the S&P 500[®] Index, monitoring and completing the adjustments for company additions and deletions, adjusting for stock splits and stock dividends and adjusting for other corporate actions. In addition to its daily governance of indices and maintenance of the S&P 500[®] Index methodology, at least once within any 12 month period, the S&P Index Committee reviews the

S&P 500[®] Index methodology to ensure the S&P 500[®] Index continues to achieve the stated objective, and that the data and methodology remain effective. The S&P Index Committee may at times consult with investors, market participants, security issuers included in or potentially included in the S&P 500[®] Index, or investment and financial experts.

Divisor Adjustments

PS-22

The two types of adjustments primarily used by S&P are divisor adjustments and adjustments to the number of shares (including float adjustments) used to calculate the S&P 500[®] Index. Set forth below is a table of certain corporate events and their resulting effect on the divisor and the share count. If a corporate event requires an adjustment to the divisor, that event has the effect of altering the market value of the affected index stock and consequently of altering the aggregate market value of the index stocks following the event. In order that the level of the S&P 500[®] Index not be affected by the altered market value (which could be an increase or decrease) of the affected index stock, S&P generally derives a new divisor by dividing the post-event market value of the index stocks by the pre-event index value, which has the effect of reducing the S&P 500[®] Index's post-event value to the pre-event level.

Changes to the Number of Shares of a Constituent

The S&P 500[®] Index maintenance process also involves tracking the changes in the number of shares included for each of the index companies. The timing of adjustments to the number of shares depends on the type of event causing the change, and whether the change represents 5% or more of the total share count (for companies with multiple share class lines, the 5% threshold is based on each individual share class line rather than total company shares). Changes as a result of mergers or acquisitions are implemented when the transaction occurs. At S&P's discretion, however, de minimis merger and acquisition changes may be accumulated and implemented with the updates made at the quarterly share updates as described below. Changes in a constituent's total shares of 5% or more due to public offerings (which must be underwritten, have a publicly available prospectus or prospectus summary filed with the Securities and Exchange Commission and include a public confirmation that the offering has been completed) are implemented as soon as reasonably possible. Other changes of 5% or more are made weekly and are announced on Fridays for implementation after the close of trading on the following Friday. For changes of less than 5%, on the third Friday of the last month in each calendar quarter, S&P updates the share totals of companies in the S&P 500[®] Index as required by any changes in the number of shares outstanding. S&P implements a share / IWF freeze beginning after the market close on the Tuesday preceding the second Friday of each quarterly rebalancing month and ending after the market close on the third Friday of the quarterly rebalancing month. During this frozen period, shares and IWFs are not changed except for certain corporate action events (merger activity, stock splits and rights offerings).

Adjustments for Corporate Actions

There is a large range of corporate actions that may affect companies included in the S&P 500[®] Index. Certain corporate actions require S&P to recalculate the share count or the float adjustment or to make an adjustment to the divisor to prevent the value of the S&P 500[®] Index from changing as a result of the corporate action. This helps ensure that the movement of the S&P 500[®] Index does not reflect the corporate actions of individual companies in the S&P 500[®] Index.

Spin-Offs

As a general policy, a spin-off security is added to the S&P 500[®] Index at a zero price at the market close of the day before the ex-date (with no divisor adjustment). The spin-off security will remain in the S&P 500[®] Index if it meets all eligibility criteria. If the spin-off security is determined ineligible to remain in the S&P 500[®] Index, it will generally be removed after at least one day of regular way trading (with a divisor adjustment). If there is a gap between the ex-date and distribution date (or payable date), or if the spin-off security does not trade regular way on the ex-date, the spin-off security is kept in the S&P 500[®] Index until the spin-off security begins trading regular way.

PS-23

Several additional types of corporate actions, and their related adjustments, are listed in the table below.

Corporate Action	Share Count Revision Required?	Divisor Adjustment Required?
Stock split	Yes – share count is revised to reflect new count.	No – share count and price changes are off-setting
Change in shares outstanding (secondary issuance, share repurchase and/or share buy-back)	Yes – share count is revised to reflect new count.	Yes
Special dividends	No	Yes – calculation assumes that share price drops by the amount of the dividend; divisor adjustment reflects this change in index market value
Change in IWF	No	Yes – divisor change reflects the change in market value caused by the change to an IWF
Company added to or deleted from the S&P 500 [®] Index	No	Yes – divisor is adjusted by the net change in market value, calculated as the shares issued multiplied by the price paid
Rights Offering	No	Yes – divisor adjustment reflects increase in market capitalization (calculation assumes that offering is fully subscribed)

Recalculation Policy

S&P reserves the right to recalculate and republish the S&P 500[®] Index at its discretion in the event one of the following issues has occurred: (1) incorrect or revised closing price of one or more constituent securities; (2) missed corporate event; (3) incorrect application of corporate action or index methodology; (4) late announcement of a corporate event; or (5) incorrect calculation or data entry error. The decision to recalculate the S&P 500[®] Index is made at the discretion of the index manager and/or index committee, as further discussed below. The potential market impact or disruption resulting from the potential recalculation is considered when making any such decision. In the event of an incorrect closing price, a missed corporate event or a misapplied corporate action, a late announcement of a corporate event, or an incorrect calculation or data entry error that is discovered within two trading days of its occurrence, the index manager may, at his or her discretion, recalculate the S&P 500[®] Index without involving the index committee. In the event any such event is discovered beyond the two trading day period, the index committee shall decide whether the S&P 500[®] Index should be recalculated. In the event of an incorrect application of the methodology that results in the incorrect composition and/or weighting of index constituents, the index committee shall determine whether or not to recalculate the S&P 500[®] Index following specified guidelines. In the event that the S&P 500[®] Index is recalculated, it shall be done within a reasonable timeframe following the detection and review of the issue.

Calculations and Pricing Disruptions

Closing levels for the S&P 500[®] Index are calculated by S&P based on the closing price of the individual constituents of the S&P 500[®] Index as set by their primary exchange. Closing prices are received by S&P from one of its third party vendors and verified by comparing them with prices from an alternative vendor. The vendors

receive the closing price from the primary exchanges. Real-time intraday prices are calculated similarly without a second verification. Prices used for the calculation of real time index values are based on the “Consolidated Tape”. The Consolidated Tape is an aggregation of trades for each constituent over all regional exchanges and trading venues and includes the primary exchange. If there is a failure or interruption on one or more exchanges, real-time calculations will continue as long as the “Consolidated Tape” is operational.

If an interruption is not resolved prior to the market close, official closing prices will be determined by following the hierarchy set out in NYSE Rule 123C. A notice is published on the S&P website at spdji.com indicating any changes to the prices used in S&P 500[®] Index calculations. In extreme circumstances, S&P may decide to delay index adjustments or not publish the S&P 500[®] Index. Real-time indices are not restated.

Unexpected Exchange Closures

An unexpected market/exchange closure occurs when a market/exchange fully or partially fails to open or trading is temporarily halted. This can apply to a single exchange or to a market as a whole, when all of the primary exchanges are closed and/or not trading. Unexpected market/exchange closures are usually due to unforeseen circumstances, such as natural disasters, inclement weather, outages, or other events.

To a large degree, S&P is dependent on the exchanges to provide guidance in the event of an unexpected exchange closure. S&P’s decision making is dependent on exchange guidance regarding pricing and mandatory corporate actions.

NYSE Rule 123C provides closing contingency procedures for determining an official closing price for listed securities if the exchange is unable to conduct a closing transaction in one or more securities due to a system or technical issue.

3:00 PM ET is the deadline for an exchange to determine its plan of action regarding an outage scenario. As such, S&P also uses 3:00 PM ET as the cutoff.

If all major exchanges fail to open or unexpectedly halt trading intraday due to unforeseen circumstances, S&P will take the following actions:

Market Disruption Prior to Open of Trading:

(i) If all exchanges indicate that trading will not open for a given day, S&P will treat the day as an unscheduled market holiday. The decision will be communicated to clients as soon as possible through the normal channels. Indices containing multiple markets will be calculated as normal, provided that at least one market is open that day. Indices which only contain closed markets will not be calculated.

(ii) If exchanges indicate that trading, although delayed, will open for a given day, S&P will begin index calculation when the exchanges open.

Market Disruption Intraday:

(i) If exchanges indicate that trading will not resume for a given day, the S&P 500[®] Index level will be calculated using prices determined by the exchanges based on NYSE Rule 123C. Intraday S&P 500[®] Index values will continue to use the last traded composite price until the primary exchange publishes official closing prices.

License Agreement between S&P and GS Finance Corp.

The S&P 500[®] Daily Risk Control 10% USD Excess Return Index, the S&P 500[®] Daily Risk Control 10% USD Total Return Index, the S&P 500[®] Total Return Index and the S&P 500[®] Index are products of S&P Dow Jones Indices LLC, and have been licensed for use by GS Finance Corp. (“Goldman”). Standard & Poor[®] and S&P[®] are registered trademarks of Standard & Poor’s Financial Services LLC; Dow Jones[®] is a registered trademark of Dow Jones Trademark Holdings LLC (“Dow Jones”) and these trademarks have been licensed for use by S&P Dow Jones Indices LLC and sublicensed for certain purposes by Goldman. Goldman’s notes are not sponsored, endorsed, sold or promoted by S&P Dow Jones Indices LLC, Dow Jones, Standard & Poor’s Financial Services LLC or any of their respective affiliates (collectively, “S&P Dow Jones Indices”). S&P Dow Jones Indices makes no representation or warranty, express or implied, to the owners of the notes or any member of the public

PS-25

regarding the advisability of investing in securities generally or in the notes particularly or the ability of the S&P 500[®] Daily Risk Control 10% USD Excess Return Index, the S&P 500[®] Daily Risk Control 10% USD Total Return Index, the S&P 500[®] Total Return Index or the S&P 500[®] Index to track general market performance. S&P Dow Jones Indices' only relationship to Goldman with respect to the S&P 500[®] Daily Risk Control 10% USD Excess Return Index, the S&P 500[®] Daily Risk Control 10% USD Total Return Index, the S&P 500[®] Total Return Index and the S&P 500[®] Index is the licensing of these indices and certain trademarks, service marks and/or trade names of S&P Dow Jones Indices and/or its licensors. The S&P 500[®] Daily Risk Control 10% USD Excess Return Index, the S&P 500[®] Daily Risk Control 10% USD Total Return Index, the S&P 500[®] Total Return Index and the S&P 500[®] Index are determined, composed and calculated by S&P Dow Jones Indices without regard to Goldman or the notes. S&P Dow Jones Indices have no obligation to take the needs of Goldman or the owners of the notes into consideration in determining, composing or calculating the S&P 500[®] Daily Risk Control 10% USD Excess Return Index, the S&P 500[®] Daily Risk Control 10% USD Total Return Index, the S&P 500[®] Total Return Index or the S&P 500[®] Index. S&P Dow Jones Indices are not responsible for and have not participated in the determination of the prices, and amount of the notes or the timing of the issuance or sale of the notes or in the determination or calculation of the equation by which the notes are to be converted into cash. S&P Dow Jones Indices have no obligation or liability in connection with the administration, marketing or trading of the notes. There is no assurance that investment products based on the S&P 500[®] Daily Risk Control 10% USD Excess Return Index, the S&P 500[®] Daily Risk Control 10% USD Total Return Index, the S&P 500[®] Total Return Index or the S&P 500[®] Index will accurately track index performance or provide positive investment returns. S&P Dow Jones Indices LLC is not an investment advisor. Inclusion of a security within an index is not a recommendation by S&P Dow Jones Indices to buy, sell, or hold such security, nor is it considered to be investment advice.

S&P DOW JONES INDICES DOES NOT GUARANTEE THE ADEQUACY, ACCURACY, TIMELINESS AND/OR THE COMPLETENESS OF THE S&P 500[®] Daily Risk Control 10% USD Excess Return Index, the S&P 500[®] Daily Risk Control 10% USD Total Return Index, the S&P 500[®] Total Return Index or the S&P 500[®] INDEX OR ANY DATA RELATED THERETO OR ANY COMMUNICATION, INCLUDING BUT NOT LIMITED TO ORAL OR WRITTEN COMMUNICATION (INCLUDING ELECTRONIC COMMUNICATIONS) WITH RESPECT THERETO. S&P DOW JONES INDICES SHALL NOT BE SUBJECT TO ANY DAMAGES OR LIABILITY FOR ANY ERRORS, OMISSIONS, OR DELAYS THEREIN. S&P DOW JONES INDICES MAKE NO EXPRESS OR IMPLIED WARRANTIES, AND EXPRESSLY DISCLAIMS ALL WARRANTIES, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE OR AS TO RESULTS TO BE OBTAINED BY GOLDMAN, OWNERS OF THE NOTES, OR ANY OTHER PERSON OR ENTITY FROM THE USE OF THE S&P 500[®] Daily Risk Control 10% USD Excess Return Index, the S&P 500[®] Daily Risk Control 10% USD Total Return Index, the S&P 500[®] Total Return Index or S&P 500[®] INDEX OR WITH RESPECT TO ANY DATA RELATED THERETO. WITHOUT LIMITING ANY OF THE FOREGOING, IN NO EVENT WHATSOEVER SHALL S&P DOW JONES INDICES BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, TRADING LOSSES, LOST TIME OR GOODWILL, EVEN IF THEY HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, WHETHER IN CONTRACT, TORT, STRICT LIABILITY, OR OTHERWISE. THERE ARE NO THIRD PARTY BENEFICIARIES OF ANY AGREEMENTS OR ARRANGEMENTS BETWEEN S&P DOW JONES INDICES AND GOLDMAN, OTHER THAN THE LICENSORS OF S&P DOW JONES INDICES.

Historical Closing Levels of the Underlier

The closing level of the Excess Return index has fluctuated in the past and may, in the future, experience significant fluctuations. Any historical upward or downward trend in the closing level of the Excess Return index during the period shown below is not an indication that the Excess Return index is more or less likely to increase or decrease at any time during the life of your notes.

You should not take the historical closing levels of the Excess Return index as an indication of the future performance of the Excess Return index. We cannot give you any assurance that the future performance of the Excess Return index will result in your receiving an amount greater than the outstanding face amount of your notes on the stated maturity date.

Neither we nor any of our affiliates make any representation to you as to the performance of the Excess Return index. Before investing in the offered notes, you should consult publicly available information to determine the relevant levels of the Excess Return index between the date of this pricing supplement and the date of your purchase of the offered notes. The actual performance of the Excess Return index over the life of the offered notes, as well as the cash settlement amount, may bear little relation to the historical levels shown below.

The graph below shows the daily historical closing levels of the Excess Return index from May 13, 2009 (the launch date of the Excess Return index) through March 1, 2019. We obtained the closing levels in the graph below from Bloomberg Financial Services, without independent verification.

Historical Performance of the S&P 500[®] Daily Risk Control 10% USD Excess Return Index

Comparative Performance of the Excess Return Index, the Risk Control Index and the Total Return Index

The graph below shows the performance of the Excess Return index, the Risk Control index and the Total Return index from May 13, 2009 (the launch date of the Excess Return index) through March 1, 2019. For comparative purposes, each of the Excess Return index, the Risk Control index and the Total Return index has been adjusted to have a closing level of 100.00 on May 13, 2009 by dividing the closing level of that index on each day by the closing level of that Risk Control index on May 13, 2009 and multiplying by 100.00. We obtained the closing levels used to determine the adjusted closing levels in the graph below from Bloomberg Financial Services, without independent verification. You should not take the historical performance of the Excess Return index, the Risk Control index or the Total Return index as an indication of the future performance of such index.

Historical Performance of the Excess Return Index, the Risk Control Index and the Total Return Index

The graph above illustrates the historical performance of the Excess Return index relative to the Risk Control index and the Total Return index over the time period shown and provides an indication of how the relative performance of the daily returns of the Excess Return index has historically been relative to the Risk Control index and the Total Return index. The Excess Return index will always underperform the Risk Control index.

PS-28

Historical Performance of Overnight U.S. Dollar LIBOR

The graph below illustrates the historical levels of the overnight U.S. dollar LIBOR rate from March 1, 2009 through March 1, 2019. The level of the overnight U.S. dollar LIBOR rate has fluctuated in the past and may, in the future, experience significant fluctuations. Any historical upward or downward trend in the level of the overnight U.S. dollar LIBOR rate during the period shown below is not an indication that the level of the overnight U.S. dollar LIBOR rate is more or less likely to increase or decrease at any time during the life of the notes. See “U.K. Regulators Will No Longer Persuade or Compel Banks to Submit Rates for Calculation of LIBOR After 2021; Interest Rate Benchmark May Be Discontinued” and “Additional Risk Factors Specific to Your Notes — Regulation and Reform of “Benchmarks”, Including LIBOR and Other Types of Benchmarks, May Cause such “Benchmarks” to Perform Differently Than in the Past, or to Disappear Entirely, or Have Other Consequences Which Cannot be Predicted” for more information about overnight U.S. dollar LIBOR rate.

You should not take the historical level of the overnight U.S. dollar LIBOR rate as an indication of future levels of the overnight U.S. dollar LIBOR rate.

Neither we nor any of our affiliates make any representation to you as to the performance of the overnight U.S. dollar LIBOR rate. The actual levels of the overnight U.S. dollar LIBOR rate during the term of the notes may bear little relation to the historical levels of the overnight U.S. dollar LIBOR rate shown below.

We obtained the overnight U.S. dollar LIBOR rate shown in the graph below from Reuters, without independent verification.

Historical Performance of the Overnight U.S. Dollar LIBOR Rate

Supplemental discussion of U.S. federal income tax consequences

The following section supplements the discussion of U.S. federal income taxation in the accompanying prospectus.

The following section is the opinion of Sidley Austin llp, counsel to GS Finance Corp. and The Goldman Sachs Group, Inc. It applies to you only if you hold your notes as a capital asset for tax purposes. This section does not apply to you if you are a member of a class of holders subject to special rules, such as:

- a dealer in securities or currencies;
- a trader in securities that elects to use a mark-to-market method of accounting for your securities holdings;
- a bank;
- a regulated investment company;
- a life insurance company;
- a tax-exempt organization;
- a partnership;
- a person that owns the notes as a hedge or that is hedged against interest rate risks;
- a person that owns the notes as part of a straddle or conversion transaction for tax purposes; or
- a United States holder (as defined below) whose functional currency for tax purposes is not the U.S. dollar.

This section is based on the U.S. Internal Revenue Code of 1986, as amended, its legislative history, existing and proposed regulations under the Internal Revenue Code, published rulings and court decisions, all as currently in effect. These laws are subject to change, possibly on a retroactive basis.

You should consult your tax advisor concerning the U.S. federal income tax and other tax consequences of your investment in the notes, including the application of state, local or other tax laws and the possible effects of changes in federal or other tax laws.

United States Holders

This subsection describes the tax consequences to a United States holder. You are a United States holder if you are a beneficial owner of notes and you are:

- a citizen or resident of the United States;
- a domestic corporation;
- an estate whose income is subject to U.S. federal income tax regardless of its source; or
- a trust if a United States court can exercise primary supervision over the trust's administration and one or more United States persons are authorized to control all substantial decisions of the trust.

If you are not a United States holder, this section does not apply to you and you should refer to “— United States Alien Holders” below.

Your notes will be treated as debt instruments subject to special rules governing contingent payment debt instruments for U.S. federal income tax purposes. Under those rules, the amount of interest you are required to take into account for each accrual period will be determined by constructing a projected payment schedule for your notes and applying rules similar to those for accruing original issue discount on a hypothetical noncontingent debt instrument with that projected payment schedule. This method is applied by first determining the yield at which we would issue a noncontingent fixed rate debt instrument with terms and conditions similar to your notes (the “comparable yield”) and then determining as of the issue date a payment schedule that would produce the comparable yield. These rules will generally have the effect of requiring you to include amounts in income in respect of your notes, even though you will not receive any payments from us until maturity.

We have determined that the comparable yield for the notes is equal to % per annum, compounded semi-annually with a projected payment at maturity of \$ based on an investment of \$1,000.

Based on this comparable yield, if you are an initial holder that holds a note until maturity and you pay your taxes on a calendar year basis, we have determined that you would be required to report the following amounts as ordinary income, not taking into account any positive or negative adjustments you may be required to take into account based on the actual payments on the notes, from the note each year:

PS-30

Accrual Period	Total Interest Deemed to Have Accrued from Interest Deemed to Accrue During Original Issue Date (per \$1,000 note) as of End of Accrual Period (per \$1,000 note) Accrual Period
through	
December 31, 2019	
January 1, 2020 through	
December 31, 2020	
January 1, 2021 through	
December 31, 2021	
January 1, 2022 through	
December 31, 2022	
January 1, 2023 through	

You are required to use the comparable yield and projected payment schedule that we compute in determining your interest accruals in respect of your notes, unless you timely disclose and justify on your U.S. federal income tax return the use of a different comparable yield and projected payment schedule.

The comparable yield and projected payment schedule are not provided to you for any purpose other than the determination of your interest accruals in respect of your notes, and we make no representation regarding the amount of contingent payments with respect to your notes.

If you purchase your notes at a price other than their adjusted issue price determined for tax purposes, you must determine the extent to which the difference between the price you paid for your notes and their adjusted issue price is attributable to a change in expectations as to the projected payment schedule, a change in interest rates, or both, and reasonably allocate the difference accordingly. The adjusted issue price of your notes will equal your notes' original issue price plus any interest deemed to be accrued on your notes (under the rules governing contingent payment debt instruments) as of the time you purchase your notes. The original issue price of your notes will be the first price at which a substantial amount of the notes is sold to persons other than bond houses, brokers or similar persons or organizations acting in the capacity of underwriters, placement agents or wholesalers. Therefore, you may be required to make the adjustments described above even if you purchase your notes in the initial offering if you purchase your notes at a price other than the issue price.

If the adjusted issue price of your notes is greater than the price you paid for your notes, you must make positive adjustments increasing (i) the amount of interest that you would otherwise accrue and include in income each year, and (ii) the amount of ordinary income (or decreasing the amount of ordinary loss) recognized upon maturity by the amounts allocated under the previous paragraph to each of interest and the projected payment schedule; if the adjusted issue price of your notes is less than the price you paid for your notes, you must make negative adjustments, decreasing (i) the amount of interest that you must include in income each year, and (ii) the amount of ordinary income (or increasing the amount of ordinary loss) recognized upon maturity by the amounts allocated under the previous paragraph to each of interest and the projected payment schedule. Adjustments allocated to the interest amount are not made until the date the daily portion of interest accrues.

Because any Form 1099-OID that you receive will not reflect the effects of positive or negative adjustments resulting from your purchase of notes at a price other than the adjusted issue price determined for tax purposes, you are urged to consult with your tax advisor as to whether and how adjustments should be made to the amounts reported on any Form 1099-OID.

You will recognize income or loss upon the sale, exchange or maturity of your notes in an amount equal to the difference, if any, between the cash amount you receive at such time and your adjusted basis in your notes. In general, your adjusted basis in your notes will equal the amount you paid for your notes, increased by the amount of interest

you previously accrued with respect to your notes (in accordance with the comparable yield and the projected payment schedule for your notes), and increased or decreased by the amount of any positive or negative adjustment, respectively, that you are required to make if you purchase your notes at a price other than the adjusted issue price determined for tax purposes.

Any income you recognize upon the sale, exchange or maturity of your notes will be ordinary interest income. Any loss you recognize at such time will be ordinary loss to the extent of interest you included as income in the current or previous taxable years in respect of your notes, and, thereafter, capital loss. If you are a noncorporate holder, you would generally be able to use such ordinary loss to offset your income only in the taxable year in which

PS-31

you recognize the ordinary loss and would generally not be able to carry such ordinary loss forward or back to offset income in other taxable years.

Pursuant to recently enacted legislation, for taxable years beginning after December 31, 2018, with respect to a debt instrument issued with original issue discount, such as the notes, an accrual method taxpayer that reports revenues on an applicable financial statement generally must recognize income for U.S. federal income tax purposes no later than the taxable year in which such income is taken into account as revenue in an applicable financial statement of the taxpayer. For this purpose, an “applicable financial statement” generally means a financial statement certified as having been prepared in accordance with generally accepted accounting principles or that is made on the basis of international financial reporting standards and which is used by the taxpayer for various specified purposes. This rule could potentially require such a taxpayer to recognize income for U.S. federal income tax purposes with respect to the notes prior to the time such income would be recognized pursuant to the rules described above. Potential investors in the notes should consult their tax advisors regarding the potential applicability of these rules to their investment in the notes.

United States Alien Holders

If you are a United States alien holder, please see the discussion under “United States Taxation — Taxation of Debt Securities — United States Alien Holders” in the accompanying prospectus for a description of the tax consequences relevant to you. You are a United States alien holder if you are the beneficial owner of the notes and are, for U.S. federal income tax purposes:

- a nonresident alien individual;
- a foreign corporation; or
- an estate or trust that in either case is not subject to U.S. federal income tax on a net income basis on income or gain from the notes.

We will not attempt to ascertain whether any underlying stock issuer would be treated as a “United States real property holding corporation” (“USRPHC”), within the meaning of Section 897 of the Internal Revenue Code. If any underlying stock issuer was so treated, certain adverse U.S. federal income tax consequences could possibly apply to a United States alien holder. You should refer to information filed with the SEC with respect to each underlying stock issuer and consult your tax advisor regarding the possible consequences to you, if any, if the issuer of a particular underlying stock is or becomes a USRPHC.

In addition, the Treasury Department has issued regulations under which amounts paid or deemed paid on certain financial instruments (“871(m) financial instruments”) that are treated as attributable to U.S.-source dividends could be treated, in whole or in part depending on the circumstances, as a “dividend equivalent” payment that is subject to tax at a rate of 30% (or a lower rate under an applicable treaty), which in the case of amounts you receive upon the sale, exchange or maturity of your notes, could be collected via withholding. If these regulations were to apply to the notes, we may be required to withhold such taxes if any U.S.-source dividends are paid on any underlying stocks during the term of the notes. We could also require you to make certifications (e.g., an applicable Internal Revenue Service Form W-8) prior to the maturity of the notes in order to avoid or minimize withholding obligations, and we could withhold accordingly (subject to your potential right to claim a refund from the Internal Revenue Service) if such certifications were not received or were not satisfactory. If withholding was required, we would not be required to pay any additional amounts with respect to amounts so withheld. These regulations generally will apply to 871(m) financial instruments (or a combination of financial instruments treated as having been entered into in connection with each other) issued (or significantly modified and treated as retired and reissued) on or after January 1, 2021, but will also apply to certain 871(m) financial instruments (or a combination of financial instruments treated as having been entered into in connection with each other) that have a delta (as defined in the applicable Treasury regulations) of one and are issued (or significantly modified and treated as retired and reissued) on or after January 1, 2017. In addition,

these regulations will not apply to financial instruments that reference a “qualified index” (as defined in the regulations). We have determined that, as of the issue date of your notes, your notes will not be subject to withholding under these rules. In certain limited circumstances, however, you should be aware that it is possible for United States alien holders to be liable for tax under these rules with respect to a combination of transactions treated as having been entered into in connection with each other even when no withholding is required. You should consult your tax advisor concerning these regulations, subsequent official guidance and regarding any other possible alternative characterizations of your notes for U.S. federal income tax purposes.

PS-32

Foreign Account Tax Compliance Act (FATCA) Withholding

Pursuant to Treasury regulations, Foreign Account Tax Compliance Act (FATCA) withholding (as described in “United States Taxation—Taxation of Debt Securities—Foreign Account Tax Compliance Act (FATCA) Withholding” in the accompanying prospectus) will generally apply to obligations that are issued on or after July 1, 2014; therefore, the notes will generally be subject to the FATCA withholding rules. Pursuant to recently proposed regulations, the Treasury Department has indicated its intent to eliminate the requirements under FATCA of withholding on gross proceeds from the sale, exchange, maturity or other disposition of relevant financial instruments. The Treasury Department has indicated that taxpayers may rely on these proposed regulations pending their finalization.

Supplemental plan of distribution; conflicts of interest

See “Supplemental Plan of Distribution” on page S-49 of the accompanying product supplement no. 1,743 and “Plan of Distribution — Conflicts of Interest” on page 94 of the accompanying prospectus. GS Finance Corp. estimates that its share of the total offering expenses, excluding underwriting discounts and commissions, will be approximately \$

GS Finance Corp. will sell to GS&Co., and GS&Co. will purchase from GS Finance Corp., the aggregate face amount of the offered notes specified on the front cover of this pricing supplement. GS&Co. proposes initially to offer the notes to the public at the original issue price set forth on the cover page of this pricing supplement, and to certain securities dealers at such price less a concession not in excess of % of the face amount. GS&Co. will pay a fee of % from the concession to Axio Financial LLC in connection with its marketing efforts related to the offered notes. GS&Co. is an affiliate of GS Finance Corp. and The Goldman Sachs Group, Inc. and, as such, will have a “conflict of interest” in this offering of notes within the meaning of Financial Industry Regulatory Authority, Inc. (FINRA) Rule 5121. Consequently, this offering of notes will be conducted in compliance with the provisions of FINRA Rule 5121. GS&Co. will not be permitted to sell notes in this offering to an account over which it exercises discretionary authority without the prior specific written approval of the account holder. GS&Co. will also pay a fee in connection with the distribution of the notes to SIMON Markets LLC, a broker-dealer affiliated with GS Finance Corp.

We will deliver the notes against payment therefor in New York, New York on April 4, 2019. Under Rule 15c6-1 of the Securities Exchange Act of 1934, trades in the secondary market generally are required to settle in two business days, unless the parties to any such trade expressly agree otherwise. Accordingly, purchasers who wish to trade notes on any date prior to two business days before delivery will be required to specify alternative settlement arrangements to prevent a failed settlement.

We have been advised by GS&Co. that it intends to make a market in the notes. However, neither GS&Co. nor any of our other affiliates that makes a market is obligated to do so and any of them may stop doing so at any time without notice. No assurance can be given as to the liquidity or trading market for the notes.

The notes will not be listed on any securities exchange or interdealer quotation system.

We have not authorized anyone to provide any information or to make any representations other than those contained or incorporated by reference in this pricing supplement, the accompanying product supplement no. 1,743, the accompanying general terms supplement no. 1,734, the accompanying prospectus supplement or the accompanying prospectus. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. This pricing supplement, the accompanying product supplement no. 1,743, the accompanying general terms supplement no. 1,734, the accompanying prospectus supplement and the accompanying prospectus is an offer to sell only the notes offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so. The information contained in this pricing supplement, the accompanying product supplement no. 1,743, the accompanying general terms supplement no. 1,734, the accompanying prospectus supplement and the accompanying prospectus is current only as of the respective dates of such documents.

TABLE OF CONTENTS

Pricing Supplement

<u>Terms and Conditions</u>	Page PS-5
<u>Hypothetical Examples</u>	PS-8
<u>Additional Risk Factors Specific to Your Notes</u>	PS-12
<u>The Underlier</u>	PS-18
<u>Supplemental Discussion of U.S. Federal Income Tax Consequences</u>	PS-30
<u>Supplemental Plan of Distribution: Conflicts of Interest</u>	PS-33

Product Supplement No. 1,743 dated July 10, 2017

Summary Information	S-1
Hypothetical Returns on the Underlier-Linked Notes	S-8
Additional Risk Factors Specific to the Underlier-Linked Notes	S-23
General Terms of the Underlier-Linked Notes	S-27
Use of Proceeds	S-31
Hedging	S-31
Supplemental Discussion of Federal Income Tax Consequences	S-33
Employee Retirement Income Security Act	S-43
Supplemental Plan of Distribution	S-44
Conflicts of Interest	S-47

General Terms Supplement No. 1,734 dated July 10, 2017

Additional Risk Factors Specific to the Notes	S-1
Supplemental Terms of the Notes	S-16
The Underliers	S-36
S&P 500® Index	S-40
MSCI Indices	S-46
Hang Seng China Enterprises Index	S-55
Russell 2000® Index	S-61
FTSE®100 Index	S-69
EURO STOXX 50® Index	S-75
TOPIX	S-82

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The Dow Jones Industrial Average®	S-87
The iShares® MSCI Emerging Markets ETF	S-91
Use of Proceeds	S-94
Hedging	S-94
Employee Retirement Income Security Act	S-95
Supplemental Plan of Distribution	S-96
Conflicts of Interest	S-98
Prospectus Supplement dated July 10, 2017	
Use of Proceeds	S-2
Description of Notes We May Offer	S-3
Considerations Relating to Indexed Notes	S-15
United States Taxation	S-18
Employee Retirement Income Security Act	S-19
Supplemental Plan of Distribution	S-20
Validity of the Notes and Guarantees	S-21
Prospectus dated July 10, 2017	
Available Information	2
Prospectus Summary	4
Risks Relating to Regulatory Resolution Strategies and Long-Term Debt Requirements	8
Use of Proceeds	11
Description of Debt Securities We May Offer	12
Description of Warrants We May Offer	45
Description of Units We May Offer	60
GS Finance Corp.	65
Legal Ownership and Book-Entry Issuance	67
Considerations Relating to Floating Rate Debt Securities	72
Considerations Relating to Indexed Securities	73
Considerations Relating to Securities Denominated or Payable in or Linked to a Non-U.S. Dollar Currency	74
United States Taxation	77
Plan of Distribution	92
Conflicts of Interest	94
Employee Retirement Income Security Act	95
Validity of the Securities and Guarantees	95
Experts	96
Review of Unaudited Condensed Consolidated Financial Statements by Independent Registered Public Accounting Firm	96
Cautionary Statement Pursuant to the Private Securities Litigation Reform Act of 1995	96

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GS Finance Corp.

Leveraged S&P 500[®] Daily Risk Control 10% USD Excess Return Index-Linked Notes due

guaranteed by

The Goldman Sachs Group, Inc.

Goldman Sachs & Co. LLC