ROYAL BANK OF CANADA Form FWP January 22, 2019

RBC Capital Markets®

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The information in this preliminary terms supplement is not complete and may be changed.

Preliminary Terms
Supplement
Subject to Completion:
Dated January 22, 2019
Pricing Supplement Dated
January ___, 2019 to the
Product Prospectus
Supplement No. CCBN-1
Dated September 10,
2018, the Prospectus
Supplement Dated
September 7, 2018 and the
Prospectus, Dated
September 7, 2018

Auto-Callable Contingent Coupon Barrier Notes Linked to the SPDR® S&P® Biotech ETF, Due February 3, 2022 Royal Bank of Canada

Royal Bank of Canada is offering Auto-Callable Contingent Coupon Barrier Notes (the "Notes") linked to the SPDR S&P® Biotech ETF (the "Reference Stock"). The Notes offered are senior unsecured obligations of Royal Bank of Canada, will pay a quarterly Contingent Coupon at the rate and under the circumstances specified below, and will have the terms described in the documents described above, as supplemented or modified by this terms supplement. The Notes do not guarantee any return of principal at maturity. Any payments on the Notes are subject to our credit risk.

Investing in the Notes involves a number of risks. See "Risk Factors" beginning on page PS-5 of the product prospectus supplement dated September 10, 2018, on page S-1 of the prospectus supplement dated September 7, 2018, and "Selected Risk Considerations" beginning on page P-7 of this terms supplement.

The Notes will not constitute deposits insured by the Canada Deposit Insurance Corporation, the U.S. Federal Deposit Insurance Corporation or any other Canadian or U.S. government agency or instrumentality. The Notes are not subject to conversion into our common shares under subsection 39.2(2.3) of the Canada Deposit Insurance Corporation Act. Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of the Notes or determined that this terms supplement is truthful or complete. Any representation to the contrary is a criminal offense.

Issuer: Royal Bank of Canada Stock Exchange Listing: None

Trade Date: January 29, 2019 Principal Amount: \$1,000 per Note Issue Date: January 31, 2019 Maturity Date: February 3, 2022

Observation Quarterly, as set forth Coupon Payment Quarterly, as set forth below.

Dates: below Dates: Quarterly, as set forth below

Valuation Date: January 31, 2022

Contingent Coupon [7.80-8.80]% per annum (to be determined on the

Rate:

Trade Date)

Initial Stock

The closing price of the Reference Stock on the Trade Date.

Final Stock

Price:

The closing price of the Reference Stock on the Valuation Date. Price:

Call Stock

100% of the Initial Stock Price. Price:

Trigger Price

and Coupon 70% of the Initial Stock Price.

Barrier:

If the closing price of the Reference Stock is greater than or equal to the Coupon Barrier on the Contingent

Coupon:

applicable Observation Date, we will pay the Contingent Coupon applicable to that Observation Date.

You may not receive any Contingent Coupons during the term of the Notes.

If the Notes are not previously called, we will pay you at maturity an amount based on the Final

Stock Price:

For each \$1,000 in principal amount, \$1,000 plus the Contingent Coupon at maturity, unless the Final

Stock Price is less than the Trigger Price. Payment at

Maturity (if heldIf the Final Stock Price is less than the Trigger Price, then the investor will receive at maturity, for to maturity): each \$1,000 in principal amount, a cash payment equal to: \$1,000 + (\$1,000 x Reference Stock

Investors in the Notes will lose some or all of their principal amount if the Final Stock Price of the

Reference Stock is less than the Trigger Price.

If the closing price of the Reference Stock is greater than or equal to the Call Stock Price starting on

July 29, 2019 and on any Observation Date thereafter, the Notes will be automatically called for Call Feature:

100% of their principal amount, plus the Contingent Coupon applicable to the corresponding

Observation Date.

Call Settlement

The Coupon Payment Date corresponding to that Observation Date. Dates:

CUSIP: 78013XXP8

> Per Note Total Price to public⁽¹⁾ 100.00% \$ Underwriting discounts and commissions⁽¹⁾ 2.25% Proceeds to Royal Bank of Canada 97.75% \$

(1) Certain dealers who purchase the Notes for sale to certain fee-based advisory accounts may forego some or all of their underwriting discount or selling concessions. The public offering price for investors purchasing the Notes in these accounts may be between \$977.50 and \$1,000 per \$1,000 in principal amount.

The initial estimated value of the Notes as of the date of this terms supplement is \$958.83 per \$1,000 in principal amount, which is less than the price to public. The final pricing supplement relating to the Notes will set forth our estimate of the initial value of the Notes as of the Trade Date, which will not be less than \$938.83 per \$1,000 in principal amount. The actual value of the Notes at any time will reflect many factors, cannot be predicted with accuracy, and may be less than this amount. We describe our determination of the initial estimated value in more detail below.

If the Notes priced on the date of this terms supplement, RBC Capital Markets, LLC, which we refer to as RBCCM, acting as agent for Royal Bank of Canada, would receive a commission of approximately \$22.50 per \$1,000 in principal amount of the Notes and would use a portion of that commission to allow selling concessions to other dealers of up to approximately \$22.50 per \$1,000 in principal amount of the Notes. The other dealers may forgo, in their sole discretion, some or all of their selling concessions. See "Supplemental Plan of Distribution (Conflicts of Interest)" below.

Auto-Callable Contingent Coupon Barrier Notes Royal Bank of Canada

SUMMARY

The information in this "Summary" section is qualified by the more detailed information set forth in this terms supplement, the prospectus supplement, the prospectus supplement, and the prospectus.

General:

This terms supplement relates to an offering of Auto-Callable Contingent Coupon Barrier Notes

(the "Notes") linked to the SPDRS&P® Biotech ETF (the "Reference Stock").

Issuer:

Royal Bank of Canada ("Royal Bank")

Issue:

Senior Global Medium-Term Notes, Series H

Trade Date:

January 29, 2019 January 31, 2019

Issue Date:
Denominations:

Minimum denomination of \$1,000, and integral multiples of \$1,000 thereafter.

Designated

Currency:

U.S. Dollars

We will pay you a Contingent Coupon during the term of the Notes, periodically in arrears on

each Coupon Payment Date, under the conditions described below:

• If the closing price of the Reference Stock is greater than or equal to the Coupon Barrier on the applicable Observation Date, we will pay the Contingent Coupon applicable to that

Contingent Coupon:

Observation Date.

If the closing price of the Reference Stock is less than the Coupon Barrier on the applicable Observation Date, we will not pay you the Contingent Coupon applicable to that Observation

You may not receive a Contingent Coupon for one or more quarterly periods during the term of the Notes.

Contingent Coupon Rate:

[7.80-8.80%] per annum ([1.95%-2.20%] per quarter), to be determined on the Trade Date.

Observation Dates:

Quarterly on April 29, 2019, July 29, 2019, October 29, 2019, January 29, 2020, April 29, 2020, July 29, 2020, October 29, 2020, January 29, 2021, April 29, 2021, July 29, 2021, October 29,

2021 and the Valuation Date.

Coupon Payment

Dates:

Record Dates:

The Contingent Coupon, if applicable, will be paid quarterly on May 2, 2019, August 1, 2019, November 1, 2019, February 3, 2020, May 4, 2020, August 3, 2020, November 3, 2020, February

3, 2021, May 4, 2021, August 3, 2021, November 3, 2021 and the Maturity Date.

The record date for each Coupon Payment Date will be one business day prior to that scheduled Coupon Payment Date; provided, however, that any Contingent Coupon payable at maturity or upon a call will be payable to the person to whom the payment at maturity or upon the call, as the

case may be, will be payable.

Call Feature: If, on any Observation Date beginning on July 29, 2019, the closing price of the Reference Stock

is greater than or equal to the Call Stock Price, then the Notes will be automatically called.

Call Settlement

If the Notes are called on any Observation Date beginning on July 29, 2019, the Call Settlement

Dates: Date will be the Coupon Payment Date corresponding to that Observation Date.

Payment if Called: If the Notes are automatically called, then, on the applicable Call Settlement Date, for each

\$1,000 principal amount, you will receive \$1,000 plus the Contingent Coupon otherwise due on

that Call Settlement Date.

Valuation Date: January 31, 2022 Maturity Date: February 3, 2022

Initial Stock Price: The closing price of the Reference Stock on the Trade Date.

Final Stock Price: The closing price of the Reference Stock on the Valuation Date.

Call Stock Price: 100% of the Initial Stock Price.

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Trigger Price

and Coupon Barrier:

70% of the Initial Stock Price.

If the Notes are not previously called, we will pay you at maturity an amount based on the Final Stock Price of the Reference Stock:

Payment at Maturity (if not

· If the Final Stock Price is greater than or equal to the Trigger Price, we will pay you a cash payment equal to the principal amount plus the Contingent Coupon otherwise due on the Maturity Date.

previously called and held

to maturity):

· If the Final Stock Price is below the Trigger Price, you will receive at maturity, for each \$1,000 in principal amount, a cash payment equal to: \$1,000 + (\$1,000 x Reference Stock Return).

The amount of cash that you receive will be less than your principal amount, if anything, resulting in a loss that is proportionate to the decline of the Reference Stock from the Trade Date to the Valuation Date. Investors in the Notes will lose some or all of their principal amount if the Final Stock Price of

the Reference Stock is less than the Trigger Price.

Reference

Final Stock Price - Initial Stock Price

Stock Return: Initial Stock Price

Stock

Settlement: Not applicable. Payments on the Notes will be made solely in cash.

Market Disruption

Events:

The occurrence of a market disruption event (or a non-trading day) as to the Reference Stock will

result in the postponement of an Observation Date or the Valuation Date, as described in the product

prospectus supplement.

Calculation

Agent:

RBC Capital Markets, LLC ("RBCCM")

By purchasing a Note, each holder agrees (in the absence of a change in law, an administrative determination or a judicial ruling to the contrary) to treat the Notes as a callable pre-paid cash settled contingent income-bearing derivative contract linked to the Reference Stock for U.S. federal income

U.S. Tax
Treatment:

tax purposes. However, the U.S. federal income tax consequences of your investment in the Notes are uncertain and the Internal Revenue Service could assert that the Notes should be taxed in a manner that is different from that described in the preceding sentence. Please see the section below, "Supplemental Discussion of U.S. Federal Income Tax Consequences" and the discussion (including the opinion of our counsel Morrison & Foerster LLP) in the product prospectus supplement under "Supplemental Discussion of U.S. Federal Income Tax Consequences," which apply to the Notes.

Secondary Market:

Settlement:

RBCCM (or one of its affiliates), though not obligated to do so, may maintain a secondary market in the Notes after the Issue Date. The amount that you may receive upon sale of your Notes prior to maturity may be less than the principal amount.

Listing: The Notes will not be listed on any securities exchange.

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DTC global (including through its indirect participants Euroclear and Clearstream, Luxembourg as described under "Description of Debt Securities—Ownership and Book-Entry Issuance" in the

prospectus.

Terms Incorporated in the All of the terms appearing above the item captioned "Secondary Market" on the cover page and pages P-2 and P-3 of this terms supplement and the terms appearing under the caption "General Terms of the

Notes" in the product prospectus supplement, as modified by this terms supplement.

Master Note:

Auto-Callable Contingent Coupon Barrier Notes Royal Bank of Canada

ADDITIONAL TERMS OF YOUR NOTES

You should read this terms supplement together with the prospectus dated September 7, 2018, as supplemented by the prospectus supplement dated September 7, 2018 and the product prospectus supplement dated September 10, 2018, relating to our Senior Global Medium Term Notes, Series H, of which these Notes are a part. Capitalized terms used but not defined in this terms supplement will have the meanings given to them in the product prospectus supplement. In the event of any conflict, this terms supplement will control. The Notes vary from the terms described in the product prospectus supplement in several important ways. You should read this terms supplement carefully. This terms supplement, together with the documents listed below, contains the terms of the Notes and supersedes all prior or contemporaneous oral statements as well as any other written materials including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, brochures or other educational materials of ours. You should carefully consider, among other things, the matters set forth in "Risk Factors" in the prospectus supplement dated September 7, 2018 and in the product prospectus supplement dated September 10, 2018, as the Notes involve risks not associated with conventional debt securities. We urge you to consult your investment, legal, tax, accounting and other advisors before you invest in the Notes. You may access these documents on the Securities and Exchange Commission (the "SEC") website at www.sec.gov as follows (or if that address has changed, by reviewing our filings for the relevant date on the SEC website):

Prospectus dated September 7, 2018:

https://www.sec.gov/Archives/edgar/data/1000275/000121465918005973/196181424b3.htm

Prospectus Supplement dated September 7, 2018:

https://www.sec.gov/Archives/edgar/data/1000275/000121465918005975/f97180424b3.htm

Product Prospectus Supplement dated September 10, 2018:

https://www.sec.gov/Archives/edgar/data/1000275/000114036118038091/form424b5.htm

Our Central Index Key, or CIK, on the SEC website is 1000275. As used in this terms supplement, "we," "us," or "our" refers to Royal Bank of Canada.

Royal Bank of Canada has filed a registration statement (including a product prospectus supplement, a prospectus supplement, and a prospectus) with the SEC for the offering to which this terms supplement relates. Before you invest, you should read those documents and the other documents relating to this offering that we have filed with the SEC for more complete information about us and this offering. You may obtain these documents without cost by visiting EDGAR on the SEC website at www.sec.gov. Alternatively, Royal Bank of Canada, any agent or any dealer participating in this offering will arrange to send you the product prospectus supplement, the prospectus supplement and the prospectus if you so request by calling toll-free at 1-877-688-2301.

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HYPOTHETICAL EXAMPLES

The table set out below is included for illustration purposes only. The table illustrates the Payment at Maturity of the Notes (including the final Contingent Coupon, if payable) for a hypothetical range of performance for the Reference Stock, assuming the following terms and that the Notes are not automatically called prior to maturity:

Hypothetical Initial Stock \$100.00*

Price:

Hypothetical Trigger Price and Coupon Barrier:

\$70.00, which is 70% of the hypothetical Initial Stock Price

Hypothetical Contingent Coupon Rate:

8.30% per annum (or 2.075% per quarter), which is the midpoint of the Contingent Coupon Rate range of [7.80%-8.80%] per annum (to be determined on the Trade Date).

Hypothetical Contingent

\$20.75 per quarter

Coupon Amount:

Quarterly

Observation Dates: Principal Amount:

\$1,000 per Note

Hypothetical Final Stock Prices are shown in the first column on the left. The second column shows the Payment at Maturity for a range of Final Stock Prices on the Valuation Date. The third column shows the amount of cash to be paid on the Notes per \$1,000 in principal amount. If the Notes are called prior to maturity, the hypothetical examples below will not be relevant, and you will receive on the applicable Coupon Payment Date, for each \$1,000 principal amount, \$1,000 plus the Contingent Coupon otherwise due on the Notes.

Hypothetical Final Stock Price of the Reference Stock	Payment at Maturity as Percentage of Principal Amount	Payment at Maturity (assuming that the Notes were not previously called)
\$150.00	102.075%*	\$1,020.75*
\$140.00	102.075%*	\$1,020.75*
\$125.00	102.075%*	\$1,020.75*
\$120.00	102.075%*	\$1,020.75*
\$110.00	102.075%*	\$1,020.75*
\$100.00	102.075%*	\$1,020.75*
\$90.00	102.075%*	\$1,020.75*
\$80.00	102.075%*	\$1,020.75*
\$70.00	102.075%*	\$1,020.75*
\$69.99	69.990%	\$699.90
\$60.00	60.000%	\$600.00
\$50.00	50.000%	\$500.00
\$40.00	40.000%	\$400.00
\$30.00	30.000%	\$300.00

^{*} The hypothetical Initial Stock Price of \$100 used in the examples below has been chosen for illustrative purposes only and does not represent the expected actual Initial Stock Price. The actual Initial Stock Price will be set forth on the cover page of the final pricing supplement relating to the Notes.

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\$20.00	20.000%	\$200.00
\$10.00	10.000%	\$100.00
\$0.00	0%	\$0.00

^{*}Including the final Contingent Coupon, if payable.

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Hypothetical Examples of Amounts Payable at Maturity

The following hypothetical examples illustrate how the payments at maturity set forth in the table above are calculated, assuming the Notes have not been called.

Example 1: The price of the Reference Stock increases by 25% from the Initial Stock Price to the Final Stock Price of \$125.00. Because the Final Stock Price is greater than the Trigger Price and its Coupon Barrier, the investor receives at maturity, in addition to the final Contingent Coupon otherwise due on the Notes, a cash payment of \$1,000 per Note, despite the 25% appreciation in the price of the Reference Stock.

Example 2: The price of the Reference Stock decreases by 10% from the Initial Stock Price to the Final Stock Price of \$90.00. Because the Final Stock Price is greater than the Trigger Price and its Coupon Barrier, the investor receives at maturity, in addition to the final Contingent Coupon otherwise due on the Notes, a cash payment of \$1,000 per Note, despite the 10% decline in the price of the Reference Stock.

Example 3: The price of the Reference Stock decreases by 60% from the Initial Stock Price to the Final Stock Price of \$40.00. Because the Final Stock Price is less than the Trigger Price and its Coupon Barrier, the final Contingent Coupon will not be payable on the Maturity Date, and we will pay only \$400.00 for each \$1,000 in the principal amount of the Notes, calculated as follows:

Principal Amount + (Principal Amount x Reference Stock Return)

 $= \$1,000 + (\$1,000 \times -60.00\%) = \$1,000 - \$600.00 = \400.00

* * *

The Payments at Maturity shown above are entirely hypothetical; they are based on theoretical prices of the Reference Stock that may not be achieved on the Valuation Date and on assumptions that may prove to be erroneous. The actual market value of your Notes on the Maturity Date or at any other time, including any time you may wish to sell your Notes, may bear little relation to the hypothetical Payments at Maturity shown above, and those amounts should not be viewed as an indication of the financial return on an investment in the Notes.

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SELECTED RISK CONSIDERATIONS

An investment in the Notes involves significant risks. Investing in the Notes is not equivalent to investing directly in the Reference Stock. These risks are explained in more detail in the section "Risk Factors," in the product prospectus supplement. In addition to the risks described in the prospectus supplement and the product prospectus supplement, you should consider the following:

Principal at Risk — Investors in the Notes could lose all or a substantial portion of their principal amount if there is a decline in the trading price of the Reference Stock between the Trade Date and the Valuation Date. If the Notes are not automatically called and the Final Stock Price on the Valuation Date is less than the Trigger Price, the amount of cash that you receive at maturity will represent a loss of your principal that is proportionate to the decline in the closing price of the Reference Stock from the Trade Date to the Valuation Date. Any Contingent Coupons received on the Notes prior to the Maturity Date may not be sufficient to compensate for any such loss.

The Notes Are Subject to an Automatic Call — If on any Observation Date beginning in July 2019, the closing price of the Reference Stock is greater than or equal to the Call Stock Price, then the Notes will be automatically called. If the Notes are automatically called, then, on the applicable Call Settlement Date, for each \$1,000 in principal amount, you will receive \$1,000 plus the Contingent Coupon otherwise due on the applicable Call Settlement Date. You will not receive any Contingent Coupons after the Call Settlement Date. You may be unable to reinvest your proceeds from the automatic call in an investment with a return that is as high as the return on the Notes would have been if they had not been called.

You May Not Receive Any Contingent Coupons — We will not necessarily make any coupon payments on the Notes. If the closing price of the Reference Stock on an Observation Date is less than the Coupon Barrier, we will not pay you the Contingent Coupon applicable to that Observation Date. If the closing price of the Reference Stock is less than the Coupon Barrier on each of the Observation Dates and on the Valuation Date, we will not pay you any Contingent Coupons during the term of, and you will not receive a positive return on, your Notes. Generally, this non-payment of the Contingent Coupon coincides with a period of greater risk of principal loss on your Notes. Accordingly, if we do not pay the Contingent Coupon on the Maturity Date, you will also incur a loss of principal, because the Final Stock Price will be less than the Trigger Price.

The Call Feature and the Contingent Coupon Feature Limit Your Potential Return — The return potential of the Notes is limited to the pre-specified Contingent Coupon Rate, regardless of the appreciation of the Reference Stock. In addition, the total return on the Notes will vary based on the number of Observation Dates on which the Contingent Coupon becomes payable prior to maturity or an automatic call. Further, if the Notes are called due to the Call Feature, you will not receive any Contingent Coupons or any other payment in respect of any Observation Dates after the applicable Call Settlement Date. Since the Notes could be called as early as July 2019, the total return on the Notes could be minimal. If the Notes are not called, you may be subject to the full downside performance of the Reference Stock even though your potential return is limited to the Contingent Coupon Rate. As a result, the return on an investment in the Notes could be less than the return on a direct investment in the Reference Stock. Your Return May Be Lower than the Return on a Conventional Debt Security of Comparable Maturity — The return that you will receive on the Notes, which could be negative, may be less than the return you could earn on other investments. Even if your return is positive, your return may be less than the return you would earn if you bought a conventional senior interest bearing debt security of Royal Bank.

Payments on the Notes Are Subject to Our Credit Risk, and Changes in Our Credit Ratings Are Expected to Affect the Market Value of the Notes — The Notes are our senior unsecured debt securities. As a result, your receipt of any Contingent Coupons, if payable, and the amount due on any relevant payment date is dependent upon our ability to repay its obligations on the applicable payment dates. This will be the case even if the price of the Reference Stock increases after the Trade Date. No assurance can be given as to what our financial condition will be during the term of the Notes.

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There May Not Be an Active Trading Market for the Notes-Sales in the Secondary Market May Result in Significant Losses — There may be little or no secondary market for the Notes. The Notes will not be listed on any securities exchange. RBCCM and our other affiliates may make a market for the Notes; however, they are not required to do so. RBCCM or any other affiliate of ours may stop any market-making activities at any time. Even if

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a secondary market for the Notes develops, it may not provide significant liquidity or trade at prices advantageous to you. We expect that transaction costs in any secondary market would be high. As a result, the difference between bid and asked prices for your Notes in any secondary market could be substantial.

Owning the Notes Is Not the Same as Owning the Reference Stock — The return on your Notes is unlikely to reflect the return you would realize if you actually owned the shares of the Reference Stock. For instance, you will not receive or be entitled to receive any dividend payments or other distributions on the Reference Stock during the term of your Notes. As an owner of the Notes, you will not have voting rights or any other rights that holders of the Reference Stock may have. Furthermore, the Reference Stock may appreciate substantially during the term of the Notes, while your potential return will be limited to the applicable Contingent Coupon payments.

There Is No Affiliation Between the Investment Advisor or the Index Sponsor and RBCCM, and RBCCM Is Not Responsible for any Disclosure by the Investment Advisor or the Index Sponsor — We are not affiliated with the investment adviser of the Reference Stock or the index sponsor of its underlying index. However, we and our affiliates may currently, or from time to time in the future, engage in business with these entities. Nevertheless, neither we nor our affiliates assume any responsibilities for the accuracy or the completeness of any information that any other entity prepares. You, as an investor in the Notes, should make your own investigation into the Reference Stock and the companies in which it invests. None of these companies are involved in this offering, and have no obligation of any sort with respect to your Notes. These companies have no obligation to take your interests into consideration for any reason, including when taking any corporate actions that might affect the value of your Notes. The Policies of the Reference Stock's Investment Adviser Could Affect the Amount Payable on the Notes and Their Market Value — The policies of the Reference Stock's investment adviser concerning the management of the Reference Stock, additions, deletions or substitutions of the securities held by the Reference Stock could affect the market price of shares of the Reference Stock and, therefore, the amount payable on the Notes and the market value of the Notes. The amount payable on the Notes and their market value could also be affected if the Reference Stock's investment adviser changes these policies, for example, by changing the manner in which it manages the Reference Stock, or if the Reference Stock's investment adviser discontinues or suspends maintenance of the Reference Stock, in which case it may become difficult to determine the market value of the Notes. The Reference Stock's investment adviser have no connection to the offering of the Notes and have no obligations to you as an investor in the Notes in making its decisions regarding the Reference Stock.

Changes that Affect the Underlying Index of the Reference Stock Will Affect the Market Value of the Notes and the Payments on the Notes — The policies of the sponsor of the underlying index of the Reference Stock concerning the calculation of that index, additions, deletions or substitutions of the components of that index and the manner in which changes affecting those components, such as stock dividends, reorganizations or mergers, may be reflected in that index and, therefore, could affect the share price of the Reference Stock, the amount payable on the Notes, if applicable, and the market value of the Notes prior to maturity. The amount payable on the Notes and their market value could also be affected if the sponsor changes these policies, for example, by changing the manner in which it calculates the index, or if the calculation or publication of the index is discontinued or suspended.

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