

BofA Finance LLC  
Form 424B2  
April 24, 2019

This pricing supplement, which is not complete and may be changed, relates to an effective Registration Statement under the Securities Act of 1933. This pricing supplement and the accompanying product supplement, prospectus supplement and prospectus are not an offer to sell these notes in any or jurisdiction where such an offer would not be permitted.

Preliminary Pricing Supplement - Subject to Completion

Filed Pursuant to Rule 424(b)(2)

(To Prospectus dated November 4, 2016, Series A

Registration Statement No.

333-213265

Prospectus Supplement dated November 4, 2016 and  
Product Supplement EQUITY-1 dated January 24, 2017)

Dated April 24, 2019

## **BofA Finance LLC**

### **Contingent Income Auto-Callable Notes Linked to the Least Performing of the VanEck Vectors® Semiconductor ETF, the SPDR® S&P® Biotech ETF and the Consumer Discretionary Select Sector SPDR® Fund, due May 4, 2021**

#### **Fully and Unconditionally Guaranteed by Bank of America Corporation**

The CUSIP number for the notes is **09709TQF1**.

The notes are senior unsecured obligations issued by BofA Finance LLC (“BofA Finance”), a direct, wholly-owned subsidiary of Bank of America Corporation (“BAC” or the “Guarantor”), which are fully and unconditionally guaranteed by the Guarantor. Any payments due on the notes, including any repayment of principal, will be subject to the credit risk of BofA Finance, as issuer of the notes, and the credit risk of BAC, as guarantor of the notes.

The notes do not guarantee a full return of your principal at maturity, and you could lose up to 100% of the principal amount at maturity.

The notes are expected to price on April 29, 2019 (the “pricing date”). The notes are expected to mature on May 4, 2021, unless previously called.

Payments on the notes will depend on the individual performance of the VanEck Vectors® Semiconductor ETF (the “SMH”), the SPDR® S&P® Biotech ETF (the “XBI”), and the Consumer Discretionary Select Sector SPDR® Fund (the “XLY”) (each, an “Underlying,” and collectively, the “Underlyings”).

If, on any quarterly Observation Date, the Observation Value of **each** Underlying is greater than or equal to its Threshold Value, we will pay a Contingent Coupon Payment of \$37.50 per \$1,000 in principal amount (a rate of 3.75% per quarter, or 15.00% per annum) on the applicable quarterly Contingent Payment Date (each as defined below).

Prior to the maturity date, if the Observation Value of **each** Underlying is greater than or equal to its Starting Value on any Observation Date (other than the final Observation Date), the notes will be automatically redeemed, in whole but not in part, at an amount equal to 100% of the principal amount, together with the Contingent Coupon Payment with respect to that Observation Date. No further amounts will be payable following an early redemption.

At maturity, the amount you will be entitled to receive per \$1,000 in principal amount of the notes (the “Redemption Amount”) will depend on the performance of the Least Performing Underlying (as defined below). If the notes are not automatically redeemed prior to maturity, the Redemption Amount will be determined as follows:

- a) If the Ending Value (as defined below) of the Least Performing Underlying is greater than or equal to its Threshold Value, the Redemption Amount will equal the principal amount plus the final Contingent Coupon Payment.
- b)

If the Ending Value of the Least Performing Underlying is less than its Threshold Value, you will be subject to 1-1 downside exposure to any decrease in the level of the Least Performing Underlying from its Starting Value. In that case, the Redemption Amount will be less than % of the principal amount and could be zero.

The “Threshold Value” with respect to each Underlying will be set on the pricing date, but in no event will the Threshold Value for each Underlying be greater than 71.75% of its Starting Value.

The “Least Performing Underlying” will be the Underlying with the lowest Underlying Return (as defined below).

The notes will not be listed on any securities exchange.

The notes will be issued in denominations of \$1,000 and whole multiples of \$1,000.

**The initial estimated value of the notes will be less than the public offering price.** The initial estimated value of the notes as of the pricing date is expected to be between \$955.00 and \$982.50 per \$1,000 in principal amount. See “Summary” beginning on page PS-3 of this pricing supplement, “Risk Factors” beginning on page PS-8 of this pricing supplement and “Structuring the Notes” on page PS-32 of this pricing supplement for additional information. The actual value of your notes at any time will reflect many factors and cannot be predicted with accuracy.

*Potential purchasers of the notes should consider the information in “Risk Factors” beginning on page PS-8 of this pricing supplement, page PS-5 of the accompanying product supplement, page S-4 of the accompanying prospectus supplement, and page 7 of the accompanying prospectus.*

The notes and the related guarantee:

**Are Not FDIC Insured    Are Not Bank Guaranteed    May Lose Value**

|  | Per Note   | Total |
|--|------------|-------|
| Public Offering Price <sup>(1)</sup>       | \$1,000.00 | \$    |
| Underwriting Discount <sup>(1)</sup>       | \$17.50    | \$    |
| Proceeds (before expenses) to BofA Finance | \$982.50   | \$    |

(1) Certain dealers who purchase the notes for sale to certain fee-based advisory accounts may forgo some or all of their selling concessions, fees or commissions. The public offering price for investors purchasing the notes in these fee-based advisory accounts may be as low as \$982.50 per note.

*The notes and the related guarantee of the notes by the Guarantor are unsecured and are not savings accounts, deposits, or other obligations of a bank. The notes are not guaranteed by Bank of America, N.A. or any other bank, are not insured by the Federal Deposit Insurance Corporation or any other governmental agency and involve investment risks.*

*None of the Securities and Exchange Commission (the “SEC”), any state securities commission, or any other regulatory body has approved or disapproved of these notes or the guarantee, or passed upon the adequacy or accuracy of this pricing supplement, or the accompanying product supplement, prospectus supplement or prospectus. Any representation to the contrary is a criminal offense.*

We will deliver the notes in book-entry form only through The Depository Trust Company on or about May 6, 2019 against payment in immediately available funds.

**BofA Merrill Lynch**

Selling Agent

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**SUMMARY**

The Contingent Income Auto-Callable Notes Linked to the Least Performing of the VanEck Vectors® Semiconductor ETF, the SPDR® S&P® Biotech ETF and the Consumer Discretionary Select Sector SPDR® Fund, due May 4, 2021 (the “notes”) are our senior debt securities. Any payments on the notes are fully and unconditionally guaranteed by BAC. The notes and the related guarantee are not insured by the Federal Deposit Insurance Corporation or secured by collateral. **The notes will rank equally with all of our other senior unsecured debt, and the related guarantee will rank equally with all of BAC’s other senior unsecured debt. Any payments due on the notes, including any repayment of the principal amount, will be subject to the credit risk of BofA Finance, as issuer, and BAC, as guarantor.** Unless earlier called, the notes will mature on May 4, 2021.

If, on any quarterly Observation Date, the Observation Value of **each** Underlying is greater than or equal to its Threshold Value, we will pay a Contingent Coupon Payment of \$37.50 per \$1,000 in principal amount (a rate of 3.75% per quarter, or 15.00% per annum) on the applicable Contingent Payment Date. Prior to the maturity date, if the Observation Value of **each** Underlying is greater than or equal to its Starting Value on any Observation Date (other than the final Observation Date), the notes will be automatically redeemed, in whole but not in part, at an amount equal to 100% of the principal amount, together with the relevant Contingent Coupon Payment. No further amounts will be payable following an early redemption. If the notes are not called prior to maturity, and if the Ending Value of the Least Performing Underlying is greater than or equal to its Threshold Value, at maturity you will receive the principal amount plus the final Contingent Coupon Payment. If the Ending Value of the Least Performing Underlying is less than its Threshold Value, you will be subject to 1-1 downside exposure to any decrease in the level of the Least Performing Underlying from its Starting Value. In that case, the Redemption Amount will be less than % of the principal amount and could be zero. The notes are not traditional debt securities and it is possible that the notes will not pay any Contingent Coupon Payments, and you may lose some or all of your principal amount at maturity.

Any payments on the notes, including any Contingent Coupon Payments, depend on the credit risk of BofA Finance and BAC and on the performance of each of the Underlyings. The economic terms of the notes are based on BAC’s internal funding rate, which is the rate it would pay to borrow funds through the issuance of market-linked notes, and the economic terms of certain related hedging arrangements it enters into. BAC’s internal funding rate is typically lower than the rate it would pay when it issues conventional fixed or floating rate debt securities. This difference in funding rate, as well as the underwriting discount and the hedging related charges described below, will reduce the economic terms of the notes to you and the initial estimated value of the notes. Due to these factors, the public offering price you pay to purchase the notes will be greater than the initial estimated value of the notes as of the pricing date.

On the cover page of this pricing supplement, we have provided the initial estimated value range for the notes. The initial estimated value of the notes as of the date of this pricing supplement is set forth on the cover page of this pricing supplement. The final pricing supplement will set forth the initial estimated value of the notes as of the pricing date. For more information about the initial estimated value and the structuring of the notes, see “Risk Factors” beginning on page PS-8 and “Structuring the Notes” on page PS-32.

**Issuer:** BofA Finance LLC (“BofA Finance”)  
**Guarantor:** Bank of America Corporation (“BAC”)  
**Term:** Approximately 2, if not previously called.  
**Pricing Date:** April 29, 2019  
**Issue Date:** May 6, 2019  
**Maturity Date:** May 4, 2021  
**Underlyings:** The VanEck Vectors® Semiconductor ETF (Bloomberg ticker: “SMH”), the SPDR® S&P® Biotech ETF (Bloomberg ticker: “XBI”), and the Consumer Discretionary Select Sector SPDR® Fund (Bloomberg

ticker: "XLY").

**Automatic  
Call:**

All (but not less than all) of the notes will be automatically called if the Observation Value of **each** Underlying is greater than or equal to its Starting Value on any Observation Date (other

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|                                     |  |
|-------------------------------------|--|
| <b>Observation Dates:</b>           | than the final Observation Date). If the notes are automatically called, the Early Redemption Payment will be paid on the applicable Contingent Payment Date. Quarterly, expected to be July 29, 2019, October 29, 2019, January 29, 2020, April 29, 2020, July 29, 2020, October 29, 2020, January 29, 2021 and April 29, 2021 (the final Observation Date). The Observation Dates are subject to postponement as set forth in “Description of the Notes—Certain Terms of the Notes—Events Relating to Observation Dates” on page PS-19 of product supplement EQUITY-1. Additionally, if an Observation Date is not a business day, such Observation Date will be postponed to the next business day. |
| <b>Early Redemption Payment:</b>    | The sum of the principal amount plus the Contingent Coupon Payment with respect to the applicable Observation Date.  |
| <b>Contingent Coupon Payment:</b>   | If, on any Observation Date, the Observation Value of <b>each</b> Underlying is greater than or equal to its Threshold Value, we will pay a Contingent Coupon Payment of \$37.50 per \$1,000 in principal amount (a rate of 3.75% per quarter or 15.00% per annum) on the applicable Contingent Payment Date.  |
| <b>Contingent Payment Dates:</b>    | Expected to be August 1, 2019, November 1, 2019, February 3, 2020, May 4, 2020, August 3, 2020, November 3, 2020, February 3, 2021 and the maturity date. Postponement of an Observation Date will not cause the postponement of the Contingent Payment Date relating to such Observation Date. If the notes have not been automatically called prior to maturity, the Redemption Amount per note will be: <ul style="list-style-type: none"> <li>a) If the Ending Value of the Least Performing Underlying is greater than or equal to its Threshold Value:</li> </ul>  |
| <b>Redemption Amount:</b>           | <ul style="list-style-type: none"> <li>b) If the Ending Value of the Least Performing Underlying is less than its Threshold Value: <math display="block">\\$1,000 + (\\$1,000 \times \text{Underlying Return of the Least Performing Underlying})</math> </li> </ul>   |
| <b>Starting Value:</b>              | In that case, the Redemption Amount will be less than % of the principal amount and could be zero. With respect to each Underlying, its Closing Market Price on the pricing date.  |
| <b>Threshold Value:</b>             | The Threshold Value with respect to each Underlying will be set on the pricing date, but in no event will the Threshold Value for each Underlying be greater than 71.75% of its Starting Value.  |
| <b>Observation Value:</b>           | With respect to each Underlying, its Closing Market Price on the applicable Observation Date, multiplied by its Price Multiplier on that day.  |
| <b>Ending Value:</b>                | With respect to each Underlying, its Observation Value on the final Observation Date.  |
| <b>Price Multiplier:</b>            | With respect to each Underlying, 1, subject to adjustment for certain events as described in “Description of the Notes—Anti-Dilution and Discontinuance Adjustments Relating to ETFs” beginning on page PS-23 of product supplement EQUITY-1.  |
| <b>Least Performing Underlying:</b> | The Underlying with the lowest Underlying Return.  |
| <b>Underlying Return:</b>           | With respect to each Underlying, $\frac{\text{Ending Value} - \text{Starting Value}}{\text{Starting Value}}$   |
| <b>Calculation Agent:</b>           |  |

Merrill Lynch, Pierce, Fenner & Smith Incorporated (“MLPF&S”), an affiliate of BofA Finance. For further information, see “Supplemental Plan of Distribution; Role of MLPF&S and Conflicts of Interest” beginning on page PS-30 of this pricing supplement.

**Selling Agent:**

MLPF&S. For further information, see “Supplemental Plan of Distribution; Role of MLPF&S and Conflicts of Interest” beginning on page PS-30 of this pricing supplement.

*The pricing date, issue date and other dates set forth above are subject to change, and will be set forth in the final pricing supplement relating to the notes.*

You should read carefully this entire pricing supplement, product supplement, prospectus supplement, and prospectus to understand fully the terms of the notes, as well as the tax and other considerations important to you in making a decision about whether to invest in the notes. In particular, you should review carefully the section in this pricing supplement entitled “Risk Factors,” which highlights a number of risks of an investment in the notes, to determine whether an investment in the notes is appropriate for you. If information in this pricing supplement is inconsistent with the product supplement, prospectus supplement or prospectus, this pricing supplement will supersede those documents. You are urged to consult with your own attorneys and business and tax advisors before making a decision to purchase any of the notes.

The information in this “Summary” section is qualified in its entirety by the more detailed explanation set forth elsewhere in this pricing supplement and the accompanying product supplement, prospectus supplement and prospectus. You should rely only on the information contained in this pricing supplement and the accompanying product supplement, prospectus supplement and prospectus. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. None of us, the Guarantor or MLPF&S is making an offer to sell these notes in any jurisdiction where the offer or sale is not permitted. You should assume that the information in this pricing supplement, the accompanying product supplement, prospectus supplement, and prospectus is accurate only as of the date on their respective front covers.

Capitalized terms used but not defined in this pricing supplement have the meanings set forth in the accompanying product supplement, prospectus supplement and prospectus. Unless otherwise indicated or unless the context requires otherwise, all references in this pricing supplement to “we,” “us,” “our,” or similar references are to BofA Finance, and not to BAC (or any other affiliate of BofA Finance).

The above documents may be accessed at the following links:

Product supplement EQUITY-1 dated January 24, 2017:  
<https://www.sec.gov/Archives/edgar/data/70858/000119312517016445/d331325d424b5.htm>

Series A MTN prospectus supplement dated November 4, 2016 and prospectus dated November 4, 2016:  
<https://www.sec.gov/Archives/edgar/data/70858/000119312516760144/d266649d424b3.htm>

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**Hypothetical Payments on the Notes**

The following table is for purposes of illustration only. It assumes that the notes have not been automatically called prior to maturity and is based on **hypothetical** values and shows **hypothetical** returns on the notes. It illustrates the calculation of the Redemption Amount and return on the notes based on a hypothetical Starting Value of 100 and a hypothetical Threshold Value of 71.75 for the Least Performing Underlying, the Contingent Coupon Payment of \$37.50 per \$1,000 in principal amount, and a range of hypothetical Ending Values of the Least Performing Underlying. **The actual amount you receive and the resulting total return will depend on the actual Starting Values, Threshold Values, Observation Values and Ending Values of the Underlyings, whether the notes are called prior to maturity, and whether you hold the notes to maturity.** The numbers appearing in the table below have been rounded for ease of analysis, and do not take into account any tax consequences from investing in the notes.

For recent actual prices of the Underlyings, see “The Underlyings” section below. The Ending Value of each Underlying will not include any income generated by dividends paid on the securities represented by that Underlying, which you would otherwise be entitled to receive if you invested in those securities directly. In addition, all payments on the notes are subject to issuer and Guarantor credit risk.

| <b>Ending Value of the Least Performing Underlying</b> | <b>Underlying Return of the Least Performing Underlying</b> | <b>Redemption Amount per Note</b> | <b>Return on the Notes<sup>(1)</sup></b> |
|--|---|-----------------------------------|--|
| 0.00   | -100.00%  | \$0.00                            | -100.00%                                 |
| 10.00  | -90.00%   | \$100.00                          | -90.00%                                  |
| 20.00  | -80.00%   | \$200.00                          | -80.00%                                  |
| 30.00  | -70.00%   | \$300.00                          | -70.00%                                  |
| 40.00  | -60.00%   | \$400.00                          | -60.00%                                  |
| 50.00  | -50.00%   | \$500.00                          | -50.00%                                  |
| 60.00  | -40.00%   | \$600.00                          | -40.00%                                  |
| 71.74  | -28.26%   | \$717.40                          | -28.26%                                  |
| <b>71.75<sup>(2)</sup></b>                             | <b>-28.25%</b>  | <b>\$1,037.50<sup>(3)</sup></b>   | <b>3.75%</b>                             |
| 80.00  | -20.00%   | \$1,037.50                        | 3.75%                                    |
| 90.00  | -10.00%   | \$1,037.50                        | 3.75%                                    |
| <b>100.00<sup>(4)</sup></b>                            | <b>0.00%</b>  | <b>\$1,037.50</b>                 | <b>3.75%</b>                             |
| 110.00   | 10.00%  | \$1,037.50                        | 3.75%                                    |
| 120.00   | 20.00%  | \$1,037.50                        | 3.75%                                    |
| 140.00   | 40.00%  | \$1,037.50                        | 3.75%                                    |
| 160.00   | 60.00%  | \$1,037.50                        | 3.75%                                    |
| 180.00   | 80.00%  | \$1,037.50                        | 3.75%                                    |
| 200.00   | 100.00%   | \$1,037.50                        | 3.75%                                    |

(1) The “Return on the Notes” is calculated based on the Redemption Amount, not including any Contingent Coupon Payments paid prior to maturity.

(2) This is the **hypothetical** Threshold Value of the Least Performing Underlying.

(3) This amount represents the sum of the principal amount and the final Contingent Coupon Payment.

(4) The **hypothetical** Starting Value of 100 used in the table above has been chosen for illustrative purposes only, and does not represent a likely actual Starting Value for any Underlying.

**Total Contingent Coupon Payments**

The table below illustrates the hypothetical total Contingent Coupon Payments per \$1,000 in principal amount over the term of the notes, based on the Contingent Coupon Payment of \$37.50 per note, depending on how many Contingent Coupon Payments are payable prior to early redemption or maturity. Depending on the performance of the Underlyings, you may not receive any Contingent Coupon Payments during the term of the notes.

| Number of Contingent<br>Coupon Payments | Total Contingent Coupon<br>Payments |
|---|-------------------------------------|
| 0                                       | \$0.00                              |
| 1                                       | \$37.50                             |
| 2                                       | \$75.00                             |
| 3                                       | \$112.50                            |
| 4                                       | \$150.00                            |
| 5                                       | \$187.50                            |
| 6                                       | \$225.00                            |
| 7                                       | \$262.50                            |
| 8                                       | \$300.00                            |

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## RISK FACTORS

*Your investment in the notes entails significant risks, many of which differ from those of a conventional debt security. Your decision to purchase the notes should be made only after carefully considering the risks of an investment in the notes, including those discussed below, with your advisors in light of your particular circumstances. The notes are not an appropriate investment for you if you are not knowledgeable about significant elements of the notes or financial matters in general.*

**Your investment may result in a loss; there is no guaranteed return of principal.** The notes are not principal protected. There is no fixed principal repayment amount on the notes at maturity. If the notes are not called and the Ending Value of any Underlying is less than its Threshold Value, you will lose 1% of the principal amount for each 1% that the Ending Value of the Least Performing Underlying is less than its Starting Value. In that case, you will lose all or a substantial portion of your principal.

**Your return on the notes is limited to the return represented by the Contingent Coupon Payments, if any, over the term of the notes.** Your return on the notes is limited to the Contingent Coupon Payments paid over the term of the notes, regardless of the extent to which the Ending Value of any Underlying exceeds its Starting Value. Similarly, the amount payable at maturity or upon a call will never exceed the sum of the principal amount and the applicable quarterly Contingent Coupon Payment, regardless of the extent to which the Observation Value of any Underlying exceeds its Starting Value.

In contrast, a direct investment in the securities included in one or more of the Underlyings would allow you to receive the benefit of any appreciation in their prices. Thus, any return on the notes will not reflect the return you would realize if you actually owned those securities and received the dividends paid or distributions made on them.

**The notes are subject to a potential automatic early redemption, which would limit your ability to receive the Contingent Coupon Payments over the full term of the notes.** The notes are subject to a potential automatic early redemption. Prior to maturity, the notes will be automatically called on any Observation Date (other than the final Observation Date) if the Observation Value of each Underlying is greater than or equal to its Starting Value. If the notes are redeemed prior to the maturity date, you will be entitled to receive the principal amount and the Contingent Coupon Payment with respect to the applicable Observation Date. In this case, you will lose the opportunity to continue to receive Contingent Coupon Payments after the date of early redemption. If the notes are redeemed prior to the maturity date, you may be unable to invest in other securities with a similar level of risk that could provide a return that is similar to the notes.

**You may not receive any Contingent Coupon Payments.** Investors in the notes will not necessarily receive Contingent Coupon Payments on the notes. If the Observation Value of any Underlying is less than its Threshold Value on an Observation Date, you will not receive the Contingent Coupon Payment applicable to that Observation Date. If the Observation Value of any Underlying is less than its Threshold Value on all the Observation Dates during the term of the notes, you will not receive any Contingent Coupon Payment during the term of the notes, and will not receive a positive return on the notes.

**Your return on the notes may be less than the yield on a conventional debt security of comparable maturity.** Any return that you receive on the notes, which could be negative, may be less than the return you would earn if you purchased a conventional debt security with the same maturity date. As a result, your investment in the notes may not reflect the full opportunity cost to you when you consider factors, such as inflation, that affect the time value of money.

**Any payment on the notes is subject to our credit risk and the credit risk of the Guarantor, and actual or perceived changes in our or the Guarantor's creditworthiness are expected to affect the value of the notes.** The

notes are our senior unsecured debt securities. Any payment on the notes will be fully and unconditionally guaranteed by the Guarantor. The notes are not guaranteed by any entity other than the Guarantor. As a result, your receipt of all payments on the notes will be dependent upon our ability and the ability of the Guarantor to repay our obligations under the notes on the applicable payment date, regardless of the Observation Value of any Underlying as compared to its Threshold Value or Starting Value. No assurance can be given as to what our financial condition or the financial condition of the Guarantor will be at any time during the term of the notes. If we and the Guarantor become unable to meet our respective financial obligations as they become due, you may not receive the amounts payable under the terms of the notes.

In addition, our credit ratings and the credit ratings of the Guarantor are assessments by ratings agencies of our respective abilities to pay our obligations. Consequently, our or the Guarantor's perceived creditworthiness and actual or anticipated decreases in our or the Guarantor's credit ratings or increases in the spread between the yield on our respective securities and the yield on U.S. Treasury securities (the "credit spread") prior to the maturity date may adversely affect the market value of the notes. However, because your return on the notes depends upon factors in addition to our ability and the ability of the

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Guarantor to pay our respective obligations, such as the prices of the Underlyings, an improvement in our or the Guarantor's credit ratings will not reduce the other investment risks related to the notes.

**We are a finance subsidiary and, as such, will have limited assets and operations.** We are a finance subsidiary of BAC and will have no assets, operations or revenues other than those related to the issuance, administration and repayment of our debt securities that are guaranteed by the Guarantor. As a finance subsidiary, to meet our obligations under the notes, we are dependent upon payment or contribution of funds and/or repayment of outstanding loans from the Guarantor and/or its other subsidiaries. Therefore, our ability to make payments on the notes may be limited. In addition, we will have no independent assets available for distributions to holders of the notes if they make claims in respect of the notes in a bankruptcy, resolution or similar proceeding. Accordingly, any recoveries by such holders may be limited to those available under the related guarantee by the Guarantor, and that guarantee will rank equally with all other senior unsecured obligations of the Guarantor.

**The public offering price you pay for the notes will exceed the initial estimated value.** The range of estimated values that is provided on the cover page of this preliminary pricing supplement, and the estimated value as of the pricing date that will be provided in the final pricing supplement, are each estimates only, determined as of a particular point in time by reference to our and our affiliates' pricing models. These pricing models consider certain assumptions and variables, including our credit spreads and those of the Guarantor, the Guarantor's internal funding rate, mid-market terms on hedging transactions, expectations on interest rates, dividends and volatility, price-sensitivity analysis, and the expected term of the notes. These pricing models rely in part on certain forecasts about future events, which may prove to be incorrect.

The initial estimated value does not represent a minimum or maximum price at which we, the Guarantor, MLPF&S or any of our other affiliates would be willing to purchase your notes in any secondary market (if any exists) at any time. The value of your notes at any time after the pricing date will vary based on many factors that cannot be predicted with accuracy, including our and the Guarantor's creditworthiness and changes in market conditions.

If you attempt to sell the notes prior to maturity, their market value may be lower than the price you paid for them and lower than their initial estimated value. This is due to, among other things, changes in the prices of the Underlyings, the Guarantor's internal funding rate, and the inclusion in the public offering price of the underwriting discount and the hedging related charges, all as further described in "Structuring the Notes" below. These factors, together with various credit, market and economic factors over the term of the notes, are expected to reduce the price at which you may be able to sell the notes in any secondary market and will affect the value of the notes in complex and unpredictable ways.

**We cannot assure you that a trading market for your notes will ever develop or be maintained.** We will not list the notes on any securities exchange. We cannot predict how the notes will trade in any secondary market or whether that market will be liquid or illiquid.

The development of a trading market for the notes will depend on the Guarantor's financial performance and other factors, including changes in the prices of the Underlyings. The number of potential buyers of your notes in any secondary market may be limited. We anticipate that MLPF&S will act as a market-maker for the notes, but none of us, the Guarantor or MLPF&S is required to do so. There is no assurance that any party will be willing to purchase your notes at any price in any secondary market. MLPF&S may discontinue its market-making activities as to the notes at any time. To the extent that MLPF&S engages in any market-making activities, it may bid for or offer the notes. Any price at which MLPF&S may bid for, offer, purchase, or sell any notes may differ from the values determined by pricing models that it may use, whether as a result of dealer discounts, mark-ups, or other transaction costs. These bids, offers, or completed transactions may affect the prices, if any, at which the notes might otherwise trade in the market.

In addition, if at any time MLPF&S were to cease acting as a market-maker as to the notes, it is likely that there would be significantly less liquidity in the secondary market. In such a case, the price at which the notes could be sold likely would be lower than if an active market existed.

**The payments on the notes will not reflect changes in the prices of the Underlyings other than on the Observation Dates.** Changes in the prices of the Underlyings during the term of the notes other than on the Observation Dates will not affect payments on the notes. The calculation agent will determine whether each Contingent Coupon Payment is payable, and calculate the Redemption Amount, by comparing only the Starting Value or the Threshold Value, as applicable, to the Observation Value or the Ending Value for each Underlying. No other prices of the Underlyings will be taken into account. As a result, if the notes are not called prior to maturity, you will receive less than the principal amount at maturity even if the price of each Underlying has increased at certain times during the term of the notes before the Least Performing Underlying decreases to a price that is less than its Threshold Value as of the final Observation Date.

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**Because the notes are linked to the least performing (and not the average performance) of the three Underlyings, you may not receive any return on the notes and may lose some or all of your principal amount even if the Observation Value of one or more Underlyings is always greater than or equal to its Threshold Value.** Your notes are linked to the least performing of three Underlyings, and a change in the price of one Underlying may not correlate with changes in the price of the other two Underlyings. The notes are not linked to a basket composed of the Underlyings, where the depreciation in the price of one Underlying could be offset to some extent by the appreciation in the price of one or both of the other Underlyings. In the case of the notes that we are offering, the individual performance of each Underlying would not be combined, and the depreciation in the price of one Underlying would not be offset by any appreciation in the prices of the other Underlyings. Even if the Observation Values of two Underlyings are at or above their respective Threshold Values on an Observation Date, you will not receive the Contingent Coupon Payment with respect to that Observation Date if the Observation Value of the other Underlying is below its Threshold Value on that day. In addition, even if the Ending Values of two Underlyings are at or above their respective Threshold Values, you will lose a portion of your principal if the Ending Value of the other Underlying is below its Threshold Value.

**The stocks held by each Underlying are concentrated in one sector.** Each of the Underlyings holds securities issued by companies in the semiconductor production and equipment, biotechnology and consumer discretionary, respectively. As a result, the stocks that will determine the performance of the notes are concentrated in a few sectors. Although an investment in the notes will not give holders any ownership or other direct interests in the securities held by the Underlyings, the return on an investment in the notes will be subject to certain risks associated with a direct equity investment in companies in these sectors. Accordingly, by investing in the notes, you will not benefit from the diversification which could result from an investment linked to companies that operate in multiple sectors.

**Adverse conditions in the semiconductor production and equipment sector may reduce your return on the notes.** All or substantially all of the stocks held by the SMH are issued by companies whose primary line of business is directly associated with the semiconductor production and equipment sector. The SMH is subject to the risk that companies that are in the semiconductor production and equipment sector may be similarly affected by particular economic or market events. As product cycles shorten and manufacturing capacity increases, these companies may become increasingly subject to aggressive pricing, which hampers profitability. Semiconductor companies are vulnerable to wide fluctuations in securities prices due to rapid product obsolescence. Many semiconductor companies may not successfully introduce new products, develop and maintain a loyal customer base or achieve general market acceptance for their products, and failure to do so could have a material adverse effect on their business, results of operations and financial condition. Reduced demand for end-user products, underutilization of manufacturing capacity, and other factors could adversely impact the operating results of companies in the semiconductor production and equipment sector. Semiconductor companies typically face high capital costs and such companies may need additional financing, which may be difficult to obtain. They also may be subject to risks relating to research and development costs and the availability and price of components. Moreover, they may be heavily dependent on intellectual property rights and may be adversely affected by loss or impairment of those rights. Some of the companies involved in the semiconductor production and equipment sector are also engaged in other lines of business unrelated to the semiconductor business, and they may experience problems with these lines of business, which could adversely affect their operating results. The international operations of many semiconductor companies expose them to risks associated with instability and changes in economic and political conditions, foreign currency fluctuations, changes in foreign regulations, tariffs and trade disputes, competition from subsidized foreign competitors with lower production costs and other risks inherent to international business. The semiconductor production and equipment sector is highly cyclical, which may cause the operating results of many semiconductor companies to vary significantly. Companies in the semiconductor production and equipment sector also may be subject to competition from new market entrants. The stock prices of companies in the semiconductor production and equipment sector have been and will likely continue to be extremely volatile compared to the overall market. These factors could affect the semiconductor production and equipment sector and could affect the value of the equity securities held by the SMH and the price of the SMH during the term of the notes, which may adversely affect the value of your notes.

**Adverse conditions in the biotechnology sector may reduce your return on the notes.** All of the stocks held by the XBI are issued by companies whose primary lines of business are directly associated with the biotechnology sector. The profitability of these companies is largely dependent on, among other things, demand for the companies' products, regulatory influences on the biotechnology market (including healthcare reform and receipt of regulatory approvals and compliance with complex regulatory requirements), pricing and reimbursement from third party payors, continued innovation and successful development of new products, talent attraction and retention, maintaining intellectual property rights and industry competition. Any adverse developments affecting the biotechnology sector could adversely affect the price of the XBI and, in turn, the value of the notes.

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**Adverse conditions in the consumer discretionary sector may reduce your return on the notes.** All or substantially all of the equity securities held by the XLY are issued by companies whose primary line of business is directly associated with the consumer discretionary sector. The success of consumer product manufacturers and retailers is tied closely to the performance of the overall domestic and global economy, interest rates, competition and consumer confidence. Success depends heavily on disposable household income and consumer spending. Also, companies in the consumer discretionary sector may be subject to severe competition, which may have an adverse impact on their respective profitability. Changes in demographics and consumer tastes can also affect the demand for, and success of, consumer products and services in the marketplace. These factors could affect the consumer discretionary sector and could affect the value of the equity securities held by the XLY and the price of the XLY during the term of the notes, which may adversely affect the value of your notes.

**The anti-dilution adjustments will be limited.** The calculation agent may adjust the Price Multiplier of the Underlyings and other terms of the notes to reflect certain corporate actions by the Underlyings, as described in the section “Description of the Notes—Anti-Dilution and Discontinuance Adjustments Relating to ETFs” in the accompanying product supplement. The calculation agent will not be required to make an adjustment for every event that may affect the Underlyings and will have broad discretion to determine whether and to what extent an adjustment is required.

**The sponsor or investment advisor of an Underlying may adjust that Underlying in a way that affects its prices, and the sponsor or investment advisor has no obligation to consider your interests.** The sponsor or investment advisor of an Underlying can add, delete, or substitute the components included in that Underlying or make other methodological changes that could change its price. A new security included in an Underlying may perform significantly better or worse than the replaced security, and the performance will impact the price of that Underlying. Additionally, the sponsor or investment advisor of an Underlying may alter, discontinue, or suspend calculation or dissemination of that Underlying. Any of these actions could adversely affect the value of your notes. The sponsor or investment advisor of any Underlying will have no obligation to consider your interests when making any changes to the applicable Underlying.

**The performance of each Underlying may not correlate with the performance of its underlying index (each, an “Underlying Index”) as well as the net asset value per share of the Underlying, especially during periods of market volatility.** The performance of each Underlying and that of its Underlying Index generally will vary due to, for example, transaction costs, management fees, certain corporate actions, and timing variances. Moreover, it is also possible that the performance of an Underlying may not fully replicate or may, in certain circumstances, diverge significantly from the performance of its Underlying Index. This could be due to, for example, the Underlying not holding all or substantially all of the underlying assets included in the Underlying Index and/or holding assets that are not included in the Underlying Index, the temporary unavailability of certain securities in the secondary market, the performance of any derivative instruments held by the Underlying, differences in trading hours between the Underlying (or the underlying assets held by the Underlying) and the Underlying Index, or due to other circumstances. This variation in performance is called the “tracking error,” and, at times, the tracking error may be significant. In addition, because the shares of each Underlying are traded on a securities exchange and are subject to market supply and investor demand, the market price of one share of the Underlying may differ from its net asset value per share; shares of the Underlying may trade at, above, or below its net asset value per share. During periods of market volatility, securities held by each Underlying may be unavailable in the secondary market, market participants may be unable to calculate accurately the net asset value per share of the Underlying and the liquidity of the Underlying may be adversely affected. Market volatility may also disrupt the ability of market participants to trade shares of the Underlying. Further, market volatility may adversely affect, sometimes materially, the prices at which market participants are willing to buy and sell shares of the Underlying. As a result, under these circumstances, the market value of shares of the Underlying may vary substantially from the net asset value per share of the Underlying.

For the foregoing reasons, the performance of each Underlying may not match the performance of its Underlying Index or the net asset value per share of the Underlying over the same period. Because of this variance, the return on

the notes to the extent dependent on the performance of the Underlying may not be the same as an investment directly in the securities included in the Underlying Index or the same as a debt security with a return linked to the performance of the Underlying Index.

**Trading and hedging activities by us, the Guarantor and any of our other affiliates may affect your return on the notes and their market value.** We, the Guarantor and our other affiliates, including MLPF&S, may buy or sell shares of the Underlying or the securities held by or included in an Underlying, or futures or options contracts on an Underlying or those securities, or other listed or over-the-counter derivative instruments linked to an Underlying or those securities. We, the Guarantor and any of our other affiliates, including MLPF&S, may execute such purchases or sales for our own or their own accounts, for business reasons, or in connection with hedging our obligations under the notes. These transactions could affect the price of an Underlying in a manner that could be adverse to your investment in the notes. On or before the pricing date, any purchases or sales by us, the Guarantor or our other

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affiliates, including MLPF&S or others on its behalf (including for the purpose of hedging anticipated exposures), may affect the price of an Underlying. Consequently, the price of an Underlying may change subsequent to the pricing date, adversely affecting the market value of the notes.

We, the Guarantor or one or more of our other affiliates, including MLPF&S, may also engage in hedging activities that could affect the price of an Underlying on the pricing date. In addition, these activities may decrease the market value of your notes prior to maturity, and may affect the amounts to be paid on the notes. We, the Guarantor or one or more of our other affiliates, including MLPF&S, may purchase or otherwise acquire a long or short position in the notes and may hold or resell the notes. For example, MLPF&S may enter into these transactions in connection with any market making activities in which it engages. We cannot assure you that these activities will not adversely affect the price of an Underlying, the market value of your notes prior to maturity or the amounts payable on the notes.

**Our trading, hedging and other business activities may create conflicts of interest with you.** We, the Guarantor or one or more of our other affiliates, including MLPF&S, may engage in trading activities related to the Underlyings or the securities represented by the Underlyings that are not for your account or on your behalf. We, the Guarantor or one or more of our other affiliates, including MLPF&S, also may issue or underwrite other financial instruments with returns based upon the Underlyings. While we, the Guarantor or one or more of our other affiliates, including MLPF&S, may from time to time own securities represented by the Underlyings, we, the Guarantor and our other affiliates, including MLPF&S, do not control any company included in the Underlyings, and have not verified any disclosure made by any other company. These trading and other business activities may present a conflict of interest between your interest in the notes and the interests we, the Guarantor and our other affiliates, including MLPF&S, may have in our proprietary accounts, in facilitating transactions, including block trades, for our or their other customers, and in accounts under our or their management. These trading and other business activities, if they influence the prices of the Underlyings or secondary trading in your notes, could be adverse to your interests as a beneficial owner of the notes.

We expect to enter into arrangements or adjust or close out existing transactions to hedge our obligations under the notes. We, the Guarantor or our other affiliates, including MLPF&S, also may enter into hedging transactions relating to other notes or instruments, some of which may have returns calculated in a manner related to that of the notes offered hereby. We may enter into such hedging arrangements with one of our affiliates. Our affiliates may enter into additional hedging transactions with other parties relating to the notes and the Underlyings. This hedging activity is expected to result in a profit to those engaging in the hedging activity, which could be more or less than initially expected, or the hedging activity could also result in a loss. We and our affiliates will price these hedging transactions with the intent to realize a profit, regardless of whether the value of the notes increases or decreases. Any profit in connection with such hedging activities will be in addition to any other compensation that we, the Guarantor and our other affiliates, including MLPF&S, receive for the sale of the notes, which creates an additional incentive to sell the notes to you.

**There may be potential conflicts of interest involving the calculation agent, which is an affiliate of ours.** We have the right to appoint and remove the calculation agent. One of our affiliates will be the calculation agent for the notes and, as such, will make a variety of determinations relating to the notes, including the amounts that will be paid on the notes. Under some circumstances, these duties could result in a conflict of interest between its status as our affiliate and its responsibilities as calculation agent. These conflicts could occur, for instance, in connection with the calculation agent's determination as to whether a Market Disruption Event (as defined in the product supplement) has occurred, or in connection with judgments that it would be required to make if certain corporate events occur as to an Underlying. The calculation agent will be required to carry out its duties in good faith and use its reasonable judgment. However, because we expect that the Guarantor will control the calculation agent, potential conflicts of interest could arise.

**The U.S. federal income tax consequences of an investment in the notes are uncertain, and may be adverse to a holder of the notes.** No statutory, judicial, or administrative authority directly addresses the characterization of the notes or securities similar to the notes for U.S. federal income tax purposes. As a result, significant aspects of the U.S. federal income tax consequences of an investment in the notes are not certain. Under the terms of the notes, you will have agreed with us to treat the notes as contingent income-bearing single financial contracts, as described under “U.S. Federal Income Tax Summary—General.” If the Internal Revenue Service (the “IRS”) were successful in asserting an alternative characterization for the notes, the timing and character of income, gain or loss with respect to the notes may differ. No ruling will be requested from the IRS with respect to the notes and no assurance can be given that the IRS will agree with the statements made in the section entitled “U.S. Federal Income Tax Summary.” **You are urged to consult with your own tax advisor regarding all aspects of the U.S. federal income tax consequences of investing in the notes.**

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*Investors in the notes should review the additional risk factors set forth beginning on page PS-5 of the product supplement prior to making an investment decision.*

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## **DESCRIPTION OF THE NOTES**

### **General**

The notes will be part of a series of medium-term notes entitled “Senior Medium-Term Notes, Series A” issued under the senior indenture, as amended and supplemented from time to time, among us, the Guarantor and The Bank of New York Mellon Trust Company N.A., as trustee. The senior indenture is more fully described in the prospectus supplement and prospectus. The following description of the notes supplements the description of the general terms and provisions of the notes and debt securities set forth under the headings “Description of the Notes” in the prospectus supplement and “Description of Debt Securities” in the prospectus. These documents should be read in connection with this pricing supplement.

Our payment obligations on the notes are fully and unconditionally guaranteed by the Guarantor. The notes will rank equally with all of our other senior unsecured debt from time to time outstanding. The guarantee of the notes will rank equally with all other senior unsecured obligations of the Guarantor. Any payments due on the notes, including any repayment of principal, are subject to our credit risk, as issuer, and the credit risk of BAC, as guarantor.

The notes will be issued in denominations of \$1,000 and whole multiples of \$1,000. You may transfer the notes only in whole multiples of \$1,000.

Unless automatically called prior to the maturity date, the notes will mature on May 4, 2021. Prior to maturity, the notes are not repayable at our option or at your option.

If any scheduled Contingent Payment Date, including the maturity date, is not a business day, the payment will be postponed to the next business day, and no interest will be payable as a result of that postponement.

### **Contingent Coupon Payment**

If, on any quarterly Observation Date, the Observation Value of each Underlying is greater than or equal to its Threshold Value, we will pay the Contingent Coupon Payment on the applicable Contingent Payment Date.

The “Contingent Coupon Payment” will be \$37.50 per \$1,000 in principal amount (a rate of 3.75% per quarter or 15.00% per annum).

The Threshold Value with respect to each Underlying will be set on the pricing date, but in no event will the Threshold Value for each Underlying be greater than 71.75% of its Starting Value.

For so long as the notes are held in book-entry only form, we will pay the Contingent Coupon Payment to the persons in whose names the notes are registered at the close of business one business day prior to each Contingent Payment Date. If the notes are not held in book-entry only form, the record dates will be the fifteenth calendar day preceding the applicable payment date, whether or not that date is a business day.

Notwithstanding the foregoing, the Redemption Amount, including the final Contingent Coupon Payment with respect to the final Observation Date, if payable, will be paid to the persons in whose names the notes are registered on the maturity date.

### **Automatic Early Redemption**

The notes will be automatically called in whole, but not in part, prior to maturity if the Observation Value of each Underlying on any Observation Date (other than the final Observation Date) is greater than or equal to its Starting Value. Upon an early redemption, you will receive the Early Redemption Payment on the applicable Contingent Payment Date. You will not receive any additional payments on the notes after the early redemption date.

The “Early Redemption Payment” will be the principal amount of your notes, plus the Contingent Coupon Payment with respect to the applicable Observation Date.

**Redemption Amount**

If your notes are not called prior to maturity, then at maturity, subject to our credit risk as issuer of the notes and the credit risk of the Guarantor as guarantor of the notes, you will receive the Redemption Amount per note that you hold, denominated in U.S. dollars. The Redemption Amount per

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note will be calculated as follows:

If the Ending Value of **each** Underlying is greater than or equal to its Threshold Value, the Redemption Amount will equal the principal amount plus the Contingent Coupon Payment with respect to the final Observation Date.

If the Ending Value of **any Underlying** is less than its Threshold Value, the Redemption Amount per note will equal:

$\$1,000 + (\$1,000 \times \text{the Underlying Return of the Least Performing Underlying})$

In this case, the Redemption Amount will be less than % of the principal amount of the notes, and you will lose up to 100% of your principal.

With respect to each Underlying, its “Underlying Return” will equal:

$\frac{\text{Ending Value} - \text{Starting Value}}{\text{Starting Value}}$

Starting Value

With respect to each Underlying, the “Price Multiplier” will be 1, subject to adjustment by the calculation agent in its sole discretion and as it deems reasonable for certain corporate events relating to the Underlying described in the product supplement under “Description of the Notes—Anti-Dilution and Discontinuance Adjustments Relating to ETFs—Anti-Dilution Adjustments for an ETF.”

### **Determining the Starting Value, the Observation Value and the Ending Value of Each Underlying**

With respect to each Underlying, the “Starting Value” will be its Closing Market Price on the pricing date.

With respect to each Underlying, the “Observation Value” will be its Closing Market Price on the applicable Observation Date multiplied by its Price Multiplier on that day.

With respect to each Underlying, the “Ending Value” will be its Observation Value on the final Observation Date.

The Observation Dates are subject to postponement as set forth in the product supplement, in the section “Description of the Notes—Certain Terms of the Notes—Events Relating to Observation Dates.” Additionally, if an Observation Date is not a business day, such Observation Date will be postponed to the next business day. Postponement of an Observation Date will not cause the postponement of the Contingent Payment Date relating to such Observation Date.

### **Events of Default and Acceleration**

If an Event of Default, as defined in the senior indenture and in the section entitled “Events of Default and Rights of Acceleration” beginning on page 35 of the accompanying prospectus, with respect to the notes occurs and is continuing, the amount payable to a holder of the notes upon any acceleration permitted under the senior indenture will be equal to the amount described under the caption “—Redemption Amount,” calculated as though the date of acceleration were the maturity date of the notes and as though the final Observation Date were the third trading day prior to the date of acceleration. We will also determine whether the final Contingent Coupon Payment is payable based upon the prices of the Underlyings on the deemed final Observation Date; any such final Contingent Coupon Payment will be prorated by the calculation agent to reflect the length of the final contingent payment period. In case of a default in the payment of the notes, whether at their maturity or upon acceleration, the notes will not bear a



default interest rate.

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## THE UNDERLYINGS

All disclosures contained in this pricing supplement regarding the Underlyings, including, without limitation, their make-up, method of calculation, and changes in their components, have been derived from publicly available sources. The information reflects the policies of, and is subject to change by, each of VanEck Vectors ETF Trust (“VanEck Trust”) and Van Eck Associates Corporation (“VanEck”), with respect to the SMH and SSGA Funds Management, Inc. (“SSGA”), the advisor to the XBI and XLY. We refer to VanEck and SSGA as the “investment advisors.” Each of the Investment Advisors, which license the copyright and all other rights to the Underlyings, have no obligation to continue to publish, and may discontinue publication of, the Underlyings. The consequences of any investment advisor discontinuing publication of the Underlyings are discussed in “Description of the Notes-Anti-Dilution and Discontinuance Adjustments Relating to ETFs- Discontinuance of an ETF” in the accompanying product supplement. None of us, the Guarantor, the calculation agent, or MLPF&S accepts any responsibility for the calculation, maintenance or publication of the Underlyings. None of us, the Guarantor, MLPF&S or any of our other affiliates makes any representation to you as to the future performance of the Underlyings. You should make your own investigation into the Underlyings.

### **The VanEck Vectors® Semiconductor ETF**

The SMH is an exchange-traded fund that trades on the NYSE Arca, Inc. under the ticker symbol “SMH.” The SMH seeks to replicate as closely as possible, before fees and expenses, the price and yield performance of the MVIS® US Listed Semiconductor 25 Index (“MVSMH”). For more information about the MVSMH, please see “The MVIS® US Listed Semiconductor 25 Index” below.

The SMH, using a “passive” or indexing investment approach, attempts to approximate the investment performance of the MVSMH by investing in a portfolio of securities that generally replicates the MVSMH.

The SMH’s return may not match the return of the MVSMH for a number of reasons. For example, the SMH incurs a number of operating expenses not applicable to the MVSMH and incurs costs associated with buying and selling securities, especially when rebalancing the SMH’s securities holdings to reflect changes in the composition of the MVSMH, which are not factored into the return of the MVSMH. Transaction costs, including brokerage costs, will decrease the SMH’s net asset value to the extent not offset by the transaction fee payable by an authorized participant. Market disruptions and regulatory restrictions could have an adverse effect on the SMH’s ability to adjust its exposure to the required levels in order to track the MVSMH. Errors in the MVSMH data, the MVSMH computations and/or the construction of the MVSMH in accordance with its methodology may occur from time to time and may not be identified and corrected by the MVSMH provider for a period of time or at all, which may have an adverse impact on the SMH and its shareholders. In addition, the SMH may not invest in certain securities included in the MVSMH, or invest in them in the exact proportions in which they are represented in the MVSMH. The SMH’s performance may also deviate from the return of the MVSMH due to legal restrictions or limitations imposed by the governments of certain countries, certain listing standards of the SMH’s listing exchange, a lack of liquidity on stock exchanges in which the securities trade, potential adverse tax consequences or other regulatory reasons (such as diversification requirements). The SMH may value certain of its investments and/or other assets based on fair value prices. To the extent the SMH calculates its net asset value based on fair value prices and the value of the MVSMH is based on securities’ closing prices (*i.e.*, the value of the MVSMH is not based on fair value prices), the SMH’s ability to track the MVSMH may be adversely affected. In addition, any issues the SMH encounters with regard to currency convertibility (including the cost of borrowing funds, if any) and repatriation may also increase tracking risk. In light of the factors discussed above, the SMH’s return may deviate significantly from the return of the MVSMH. Changes to the composition of the MVSMH in connection with a rebalancing or reconstitution of the MVSMH may cause the SMH to experience increased volatility, during which time the SMH’s index tracking risk may be heightened.

### **The MVIS® US Listed Semiconductor 25 Index**

All information contained in this pricing supplement regarding the MVSMH, including, without limitation, its make-up, method of calculation and changes in its components, from publicly available information, without independent verification. This information reflects the policies of, and is subject to change by, MV Index Solutions GmbH (“MVIS”). The MVSMH was developed by MVIS and is maintained and published by MVIS. The MVSMH is calculated by Solactive AG. MVIS has no obligation to continue to publish, and may discontinue the publication of, the MVSMH.

The MVSMH is reported by Bloomberg L.P. under the ticker symbol “MVSMH.”

The MVSMH is designed to track the performance of the largest and most liquid U.S.-listed companies that derive at least 50% (25% for current components) of their revenues from semiconductors. This includes companies engaged primarily in the production of semiconductors and semiconductor equipment. The MVSMH was launched on August 12, 2011 with a base index value of 1,000 as of September 29, 2000.

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## *Index Composition and Maintenance*

### *The Index Universe*

The index universe includes only common stocks and stocks with similar characteristics from financial markets that are freely investable for foreign investors and that provide real-time and historical component and currency pricing. Limited partnerships are excluded. Companies from financial markets that are not freely investable for foreign investors or that do not provide real-time and historical component and currency pricing may still be eligible if they have a listing on an eligible exchange and if they meet all the size and liquidity requirements on that exchange.

Only stocks that have a full market capitalization exceeding US\$50 million are eligible for the index universe.

### *Investable Index Universe*

Companies with a free-float (or shares available to foreign investors) of less than 5% for existing index components or less than 10% for new components are ineligible for inclusion.

In addition to the above, stocks that are currently not in the Semiconductor Index must meet the following size and liquidity requirements:

- a full market capitalization exceeding US\$150 million;
- a three-month average-daily-trading volume of at least US\$1 million at the current review and also at the previous two reviews; and
- at least 250,000 shares traded per month over the last six months at the current review and also at the previous two reviews.

For stocks already in the Semiconductor Index the following applies:

- a full market capitalization exceeding US\$75 million; and
- a three-month average-daily-trading volume of at least US\$0.2 million in at least two of the latest three quarters (current review and also at previous two reviews)

In addition, a three-month average-daily-trading volume of at least US\$0.6 million at current review or at one of the previous two reviews; or

- at least 200,000 shares traded per month over the last six months at the current review or at one of the previous two reviews.

In case the number of investable stocks drops below the minimum component number for the respective index, current components remain investable.

Only one share line of each company is eligible. In case more than one share line fulfills the above size and liquidity rules, only the largest share line by free-float market capitalization is eligible. MVIS can, in exceptional cases (e.g., significantly higher liquidity), decide for a different share line.

In case the free-float market capitalization of a non-component share line:

- exceeds the free-float market capitalization of a share line of the same company which is an index component by at least 25%; and

- fulfills all size and liquidity eligibility criteria for non-components,

the current component share line will be replaced by the larger one. MVIS can, in exceptional cases (e.g., significantly higher liquidity), decide to keep the current share line instead.

### *Index Constituent Selection*

The MVSMH is reviewed on a semi-annual basis in March and September.

The target coverage of the MVSMH is 25 companies from the investable universe. MVSMH constituents are selected using the following procedure:

- (1) The largest 50 stocks (by full market capitalization) from the investable universe qualify.  
The 50 stocks are ranked in two different ways — by free-float market capitalization in descending order (the largest company receives rank “1”) and then by three-month average-daily-trading volume in descending order (the most liquid company receives rank “1”). These two ranks are added up.
- (2) company receives rank “1”) and then by three-month average-daily-trading volume in descending order (the most liquid company receives rank “1”). These two ranks are added up.
- (3) The 50 stocks are then ranked by the sum of their two ranks in Step 2 in ascending order. If two companies have the same sum of ranks, the larger company is placed on top.

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- a. Initially, the highest ranked 25 companies made up the MVSMH. On-going, a 10-40 buffer is applied: the highest ranked 10 companies qualify. The remaining 15 companies are selected from the highest ranked remaining current MVSMH components ranked between 11 and 40.
- b. If the number of selected companies is still below 25, then the highest ranked remaining stocks are selected until 25 companies have been selected.

#### *Review Schedule*

The reviews for the MVSMH are based on the closing data on the last business day in February and August. If a company does not trade on the last business day in February or August, the last available price for this company will be used.

The underlying index data (e.g., new number of shares, new free-float factors and new weighting cap factors) is announced on the second Friday in March or September. The weighting cap factors are based on closing data of the Wednesday prior to the second Friday in March or September. Changes to the MVSMH are implemented and based on the closing prices of the third Friday in March or September. If the third Friday is not a business day, then the review will take place on the last business day before the third Friday. If a constituent of the MVSMH does not trade on the third Friday in March or September, then the last available price for that index constituent will be used. Changes become effective on the next business day. The component changes to the MVSMH are announced on the second Friday in March or September.

#### *Ongoing Maintenance*

In addition to the periodic reviews, the MVSMH is continually reviewed for corporate events (e.g., mergers, takeovers, spin-offs, delistings and bankruptcies) that affect the MVSMH components.

*Deletions.* For all corporate events that result in a stock deletion from the MVSMH, the deleted stock will be replaced with the highest ranked non-component on the most recent selection list immediately only if the number of components in the MVSMH would drop below 20. The replacement stock will be added at the same weight as the deleted stock. Only in case the number of components drop below its minimum due to a merger of two or more index components, the replacement stock will be added with its free-float market capitalization, weighted with the capping factor of the uncapped components in the small-weight group of the weighting scheme. In all other cases (i.e., there is not replacement), the additional weight resulting from the deletion will be redistributed proportionally across all other components of the MVSMH.

*Changes to Free-Float Factor and Number of Shares.* Changes to the number of shares or the free-float factors due to corporate actions like stock dividends, splits, rights issues, etc. are implemented immediately and will be effective the next trading day (i.e., the ex-date). Simple share/float changes are implemented after a 3-day notice period.

*Initial Public Offerings (IPOs) and Spin-Offs.* An IPO stock is eligible for fast-track addition to the index universe for the Semiconductor Index once; either at the next semi-annual review if it has been trading since at least the last trading day of the month prior to the review snapshot dates (i.e., the last trading day in February or August) or else at the then-following semi-annual review. In order to be added to the Semiconductor Index the IPO stock has to meet the size and liquidity requirements:

- the IPO must have a full market capitalization exceeding US\$150 million;
- the IPO must have a free-float factor of at least 10%;
- the IPO must have an average-daily-trading volume of at least US\$1 million; and
- the IPO must have traded at least 250,000 shares per month (or per 22 days).

This rule is applicable for newly spun-off companies as well.

*Changes due to Mergers & Takeovers.* A merger or takeover is deemed successful if it has been declared wholly unconditional and has received approval of all regulatory agencies with jurisdiction over the transaction. The result of a merger or takeover is typically one surviving stock and one or more non-surviving stocks that may not necessarily be de-listed from the respective trading system(s).

If a MVSMH component merges with or takes over another MVSMH component: The surviving stock remains in the MVSMH and the other stock is deleted immediately from the MVSMH. Its shares and float are adjusted according to the terms of the merger/takeover. The index market capitalization of the merged company corresponds to the market capitalization of the two separate companies.

If a MVSMH component merges with or takes over a non-MVSMH component: If the surviving stock meets the MVSMH requirements, then it remains in the MVSMH and its shares (if the share change is greater than 10%) and float are adjusted according to the terms of the merger/takeover. If the surviving stock does not meet the MVSMH requirements, then it is deleted immediately from the MVSMH.

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If a non-MVSMH component merges with or takes over a MVSMH component: If the surviving stock meets the MVSMH requirements, then it will be added to the MVSMH (shares (if the share change is greater than 10%) and float adjusted according to the terms of the merger/takeover) and will replace the current MVSMH component. If the surviving stock does not meet the MVSMH requirements, then it will not be added to the MVSMH and the current MVSMH component is deleted immediately from the MVSMH.

*Changes due to Spin-Offs.* Each spin-off stock is immediately added to the MVSMH for at least two trading days. If a spin-off company does not qualify for the MVSMH, it will be deleted based on its closing price. Shares and floats of the surviving companies are adjusted according to the terms of the spin-off. In case the number of MVSMH components drops below the minimum component number and no non-component stock is eligible as a replacement, the determination of the addition is subject to MVIS's decision.

### ***Index Calculation***

The value of the MVSMH is calculated using the Laspeyres' formula, rounded to two decimal places, with stock prices converted to U.S. dollars:

where (for all stocks (i) in the MVSMH):

- $p_i$  = stock price (rounded to four decimal places);
- $q_i$  = number of shares;
- $ffi$  = free-float factor (rounded to two decimal places);
- $fx_i$  = exchange rate (local currency to U.S. Dollar) (rounded to 12 decimal places);
- $cf_i$  = sector-weighting cap factor (if applicable, otherwise set to 1) (rounded to 16 decimal places);
- $M$  = free-float market capitalization of the Semiconductor Index; and
- $D$  = divisor (rounded to six decimal places).

### ***Free-Float***

The MVSMH is free-float adjusted — that is, the number of shares outstanding is reduced to exclude closely held shares (amount larger than 5% of the company's full market capitalization) from the index calculation. At times, other adjustments are made to the share count to reflect foreign ownership limits. These are combined with the block-ownership adjustments into a single factor. To avoid unwanted double counting, either the block-ownership adjustment or the restricted stocks adjustment is applied, whichever produces the higher result. Free-float factors are reviewed quarterly.

### ***Company-Weighting Cap Factors***

Companies in the MVSMH are weighted according to their free-float market capitalization, as modified by the company-weighting cap factors. The MVSMH used the company-weighting cap factors to ensure diversification to avoid overweighting. The company-weighting cap factors are reviewed quarterly and applied, if necessary. The following weighting scheme applies to the MVSMH:

- (1) All MVSMH components are weighted by their free-float market capitalization.
- (2) All companies exceeding 4.5% but at least the largest five and at the maximum the largest 10 companies are grouped together (so called "Large-Weights"). All other companies are grouped together as well (so called "Small-Weights").
- (3) The aggregated weighting of the Large-Weights is capped at 50%:
  - a. Large-Weights: If the aggregated weighting of all companies in Large-Weight exceeds 50%, then a capping factor is calculated to bring the weighting down to 50%; at the same time, a second capping factor for the Small-Weights is



calculated to increase the aggregated weight to 50%. These two factors are then applied to all companies in the Large-Weights or the Small-Weights respectively.

b. Large-Weights: The maximum weight for any single stock is 20% and the minimum weighting is 5%. If a stock is above the maximum or below the minimum weight, then the weight will be reduced to the maximum weight or increased to the minimum weight and the excess weight will be re-distributed proportionally across all other remaining Semiconductor Index constituents in the Large-Weights.

c. Small-Weights: The maximum weight for any single stock is 4.5%. If a stock is above the maximum weight, then the weight will be reduced to the maximum weight and the excess weight will be re-distributed proportionally across all other remaining MVSMMH constituents in the Small-Weights.

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*Divisor Adjustments*

Index maintenance (reflecting changes in, e.g., shares outstanding, capital actions, addition or deletion of stocks to the MVSMH) should not change the level of the MVSMH. This is accomplished with an adjustment to the divisor. Any change to the stocks in the MVSMH that alters the total market value of the MVSMH while holding stock prices constant will require a divisor adjustment.

where  $\Delta MC$  is the difference between closing market capitalization and adjusted closing market capitalization of the Semiconductor Index.

*Data Correction*

Incorrect or missing input data will be corrected immediately.

*Corporate Action Related Adjustments*

Corporate actions range widely from routine share issuances or buy backs to unusual events like spin-offs or mergers. These are listed on the table below with notes about the necessary changes and whether the divisor will be adjusted. Implementation takes place on the ex-date.

**Special cash dividend**

Divisor change: Yes

$$P_{i, \text{ adjusted}} = p^i - (\text{Dividend} \times (1 - \text{Withholding Tax}))$$

**Split**

Shareholders receive “B” new shares for every “A” share held.

Divisor change: No

**Rights offering**

Shareholders receive “B” new shares for every “A” share held.

If the subscription-price is either not available or not smaller than the closing price, then no adjustment will be done.

Divisor change: No

**Stock dividend**

Shareholders receive "B" new shares for every "A" share held.

Divisor  
change: No

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**Stock dividend from treasury**

Stock dividends from treasury are adjusted as ordinary cash dividends. Shareholders receive 'B' new shares for every 'A' share held.

Divisor change: Yes

**Stock dividend of a different company security**

Shareholders receive "B" shares of a different company for every "A" share held.

Divisor change: Yes

**Spin-offs**

Shareholders receive "B" new shares for every "A" share held.

Divisor change: Yes

**Addition/deletion of a company**

Net change in market value determines the divisor adjustment.

Divisor change: Yes

**Changes in shares outstanding/free-float**

Any secondary issuance, share repurchase, buy back, tender offer, Dutch auction, exchange offer,

Divisor change: Yes

bought deal equity offering or prospectus offering will be updated at the semi-annual review if the change is smaller than 10%. Changes larger than 10% will be pre-announced (3 trading days' notice) and implemented on a best efforts basis. If necessary and information is available, resulting float changes are taken into consideration. Share changes will not be implemented in the week between review announcement and implementation.

**Changes due to a merger/takeover/spin-off**

Net change in free-float market value determines the divisor adjustment. In case of no change, the divisor change is 0. Divisor change: Yes

With corporate actions where cash dividends or other corporate assets are distributed to shareholders, the price of the stock will drop on the ex-dividend day (the first day when a new shareholder is eligible to receive the distribution). The effect of the divisor adjustment is to prevent this price drop from causing a corresponding drop in the MVSMH.

Corporate actions are announced at least four days prior to implementation.

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*The following graph sets forth the daily historical performance of the SMH in the period from December 21, 2011 (the inception date of the Underlying) through April 23, 2019. This historical data on the SMH is not necessarily indicative of its future performance or what the value of the notes may be. Any historical upward or downward trend in the price of the SMH during any period set forth below is not an indication that the price of the SMH is more or less likely to increase or decrease at any time over the term of the notes. The horizontal red line in the graph represents its hypothetical Threshold Value of \$85.09 (rounded to two decimal places), assuming a Starting Value of \$118.59, which was the closing price of the SMH on April 23, 2019 (the actual Starting Value and Threshold Value of the SMH will be determined on the pricing date).*

Before investing in the notes, you should consult publicly available sources for the prices and trading pattern of the SMH.

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### **The SPDR® S&P® Biotech ETF**

The XBI seeks to provide investment results that correspond generally to the price and yield performance, before fees and expenses, of the S&P® Biotechnology Select Industry® Index (the “underlying index”). The underlying index represents the biotechnology sub-industry portion of the Standard & Poor’s (“S&P”) Total Market Index (“S&P TMI”), an index that measures the performance of the U.S. equity market. The XBI is composed of companies that are in the biotechnology sector. The XBI trades on NYSE Arca under the ticker symbol “XBI.”

The XBI utilizes a “replication” investment approach in attempting to track the performance of its underlying index. The XBI typically invests in substantially all of the securities which comprise the underlying index in approximately the same proportions as the underlying index. The XBI will normally invest at least 80% of its total assets in the common stocks that comprise the underlying index.

### **The S&P® Biotechnology Select Industry® Index**

This underlying index is an equal-weighted index that is designed to measure the performance of the biotechnology sub-industry portion of the S&P TMI. The S&P TMI includes all U.S. common equities listed on the New York Stock Exchange (the “NYSE”) (including NYSE Arca), the NYSE MKT, the Nasdaq Global Select Market, and the Nasdaq Capital Market. Each of the component stocks in the underlying index is a constituent company within the biotechnology sub-industry portion of the S&P TMI.

To be eligible for inclusion in the underlying index, companies must be in the S&P TMI and must be included in the relevant Global Industry Classification Standard (GICS) sub-industry. The GICS was developed to establish a global standard for categorizing companies into sectors and industries. In addition to the above, companies must satisfy one of the two following combined size and liquidity criteria:

- float-adjusted market capitalization above US\$500 million and float-adjusted liquidity ratio above 90%; or
- float-adjusted market capitalization above US\$400 million and float-adjusted liquidity ratio above 150%.

All U.S. companies satisfying these requirements are included in the underlying index. The total number of companies in the underlying index should be at least 35. If there are fewer than 35 stocks, stocks from a supplementary list of highly correlated sub-industries that meet the market capitalization and liquidity thresholds above are included in order of their float-adjusted market capitalization to reach 35 constituents. Minimum market capitalization requirements may be relaxed to ensure there are at least 22 companies in the underlying index as of each rebalancing effective date.

Eligibility factors include:

- **Market Capitalization:** Float-adjusted market capitalization should be at least US\$400 million for inclusion in the underlying index. Existing index components must have a float-adjusted market capitalization of US\$300 million to remain in the underlying index at each rebalancing.
- **Liquidity:** The liquidity measurement used is a liquidity ratio, defined as dollar value traded over the previous 12-months divided by the float-adjusted market capitalization as of the underlying index rebalancing reference date. Stocks having a float-adjusted market capitalization above US\$500 million must have a liquidity ratio greater than 90% to be eligible for addition to the underlying index. Stocks having a float-adjusted market capitalization between US\$400 and US\$500 million must have a liquidity ratio greater than 150% to be eligible for addition to the underlying index. Existing index constituents must have a liquidity ratio greater than 50% to remain in the underlying index at the quarterly rebalancing. The length of time to evaluate liquidity is reduced to the available trading period for IPOs or

spin-offs that do not have 12 months of trading history.

- Takeover Restrictions: At the discretion of S&P, constituents with shareholder ownership restrictions defined in company bylaws may be deemed ineligible for inclusion in the underlying index. Ownership restrictions preventing entities from replicating the index weight of a company may be excluded from the eligible universe or removed from the underlying index.

- Turnover: S&P believes turnover in index membership should be avoided when possible. At times, a company may appear to temporarily violate one or more of the addition criteria. However, the addition criteria are for addition to the underlying index, not for continued membership. As a result, an index constituent that appears to violate the criteria for addition to the underlying index will not be deleted unless ongoing conditions warrant a change in the composition of the underlying index.

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*The following graph sets forth the daily historical performance of the XBI in the period from January 1, 2008 through April 23, 2019. This historical data on the XBI is not necessarily indicative of its future performance or what the value of the notes may be. Any historical upward or downward trend in the price of the XBI during any period set forth below is not an indication that the price of the XBI is more or less likely to increase or decrease at any time over the term of the notes. The horizontal red line in the graph represents its hypothetical Threshold Value of \$62.37 (rounded to two decimal places), assuming a Starting Value of \$86.92, which was the closing price of the XBI on April 23, 2019 (the actual Starting Value and Threshold Value of the XBI will be determined on the pricing date).*

Before investing in the notes, you should consult publicly available sources for the prices and trading pattern of the XBI.

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## **The Consumer Discretionary Select Sector SPDR® Fund**

The shares of the XLY are issued by Select Sector SPDR® Trust, a registered investment company. The XLY seeks investment results that correspond generally to the price and yield performance, before fees and expenses, of the Consumer Discretionary Select Sector Index (the “underlying index”). The XLY measures the performance of the consumer discretionary sector of the U.S. equity market. The XLY is composed of equity securities of companies in retail (specialty, multiline, internet and direct marketing); hotels, restaurants and leisure; textiles, apparel and luxury goods; household durables; automobiles; auto components; distributors; leisure products; and diversified consumer services. The XLY trades on the NYSE Arca under the ticker symbol “XLY.”

### **Investment Approach**

The XLY utilizes a “passive” or “indexing” investment approach in attempting to track the performance of the Consumer Discretionary Select Sector Index. The XLY will invest in all of the securities which comprise the underlying index. The XLY will normally invest at least 95% of its total assets in common stocks that comprise the index.

### **Investment Objective and Strategy**

The XLY seeks to provide investment results that correspond generally to the price and yield performance, before fees and expenses, of the Consumer Discretionary Select Sector Index. SSGA uses a replication strategy to try to achieve the XLY’s investment objective, which means that the XLY generally invests in substantially all of the securities represented in the index in approximately the same proportions as the Index. In certain situations or market conditions, the XLY may temporarily depart from their normal investment policies and strategies provided that the alternative is consistent with the XLY’s investment objective and is in the best interest of the XLY. For example, if the XLY is unable to invest directly in a component security or if a derivative investment may provide higher liquidity than other types of investments, it may make larger than normal investments in derivatives to maintain exposure to the index that it tracks. Consequently, under such circumstances, the XLY may invest in a different mix of investments than it would under normal circumstances. The XLY is managed with a passive investment strategy, attempting to track the performance of an unmanaged index of securities. This differs from an actively managed Underlying, which typically seeks to outperform a benchmark index.

Notwithstanding the XLY’s investment objective, the return on your notes will not reflect any dividends paid on the XLY’s shares, on the securities purchased by the XLY or on the securities that comprise the Index.

### **Replication Strategy**

The XLY uses a replication strategy to attempt to track the performance of its Index. This strategy involves investing in substantially all of the securities represented in the index in approximately the same proportions as the index. Under normal market conditions, the XLY generally invests at least 95% of its total assets in the securities comprising the Index. The XLY will provide shareholders with at least 60 days notice prior to any material change in their respective investment policies.

### **The Select Sector Indices**

The underlying index for the XLY is part of the Select Sector Indices. The Select Sector Indices are sub-indices of the S&P 500® Index. Each stock in the S&P 500® Index is allocated to at least one Select Sector Index, and the combined companies of the ten Select Sector Indices represent all of the companies in the S&P 500® Index. The industry indices are sub-categories within each Select Sector Index and represent a specific industry segment of the overall Select

Sector Index. The ten Select Sector Indices seek to represent the eleven S&P 500<sup>®</sup> Index sectors. The index compilation agent for these indices (the “Index Compilation Agent”) determines the composition of the Select Sector Indices based on S&P’s sector classification methodology. (Sector designations are determined by the 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.)

Each Select Sector Index was developed and is maintained in accordance with the following criteria:

Each of the component stocks in a Select Sector Index (the “Component Stocks”) is a constituent company of the S&P 500<sup>®</sup> Index.

The ten Select Sector Indices together will include all of the companies represented in the S&P 500<sup>®</sup> Index and each of the stocks in the S&P 500<sup>®</sup> Index will be allocated to at least one of the Select Sector Indices.

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The Index Compilation Agent assigns each constituent stock of the S&P 500® Index to a Select Sector Index. The Index Compilation Agent assigns a company's stock to a particular Select Sector Index based on S&P Dow Jones Indices's sector classification methodology as set forth in its Global Industry Classification Standard. Each Select Sector Index is calculated by S&P Dow Jones Indices using a modified "market capitalization" methodology. This design ensures that each of the component stocks within a Select Sector Index is represented in a proportion consistent with its percentage with respect to the total market capitalization of that Select Sector Index. For reweighting purposes, each Select Sector Index is rebalanced quarterly after the close of business on the second to last calculation day of March, June, September and December using the following procedures: (1) The rebalancing reference date is two business days prior to the last calculation day of each quarter; (2) With prices reflected on the rebalancing reference date, and membership, shares outstanding, additional weight factor (capping factor) and investable weight factors (as described in the section "Computation of the S&P 500 Index®" below) as of the rebalancing effective date, each company is weighted using the modified market capitalization methodology. Modifications are made as defined below.

The indices are first evaluated to ensure none of the indices breach the maximum allowable limits defined in rules (i)(ii) and (v) below. If any of the allowable limits are breached, the component stocks are reweighted based on their float-adjusted market capitalization weights

If any component stock has a weight greater than 24%, that component stock has its float-adjusted market capitalization weight capped at 23%. The 23% weight cap creates a 2% buffer to ensure that no component stock exceeds 25% as of the quarter-end diversification requirement date.

(iii) All excess weight is equally redistributed to all uncapped component stocks within the relevant Select Sector Index.

(iv) After this redistribution, if the float-adjusted market capitalization weight of any other component stock(s) then breaches 23%, the process is repeated iteratively until no component stock s breaches the 23% weight cap.

(v) The sum of the component stocks with weight greater than 4.8% cannot exceed 50% of the total index weight. These caps are set to allow for a buffer below the 5% limit.

If the rule in step (v) is breached, all the component stocks are ranked in descending order of their float-adjusted market capitalization weights and the first component stock that causes the 50% limit to be breached has its weight reduced to 4.6%.

(vii) This excess weight is equally redistributed to all component stocks with weights below 4.6%. This process is repeated iteratively until step (v) is satisfied.

(viii) Index share amounts are assigned to each component stock to arrive at the weights calculated above. Since index shares are assigned based on prices one business day prior to rebalancing, the actual weight of each component stock at the rebalancing differs somewhat from these weights due to market movements.

(ix) If necessary, the reweighting process may take place more than once prior to the close on the last business day of March, June, September or December to ensure conformity with all diversification requirements.

Each Select Sector Index is calculated using the same methodology utilized by S&P Dow Jones Indices in calculating the S&P 500® Index, using a base-weighted aggregate methodology. The daily calculation of each Select Sector Index is computed by dividing the total market value of the companies in the Select Sector Index by a number called the index divisor.

The Index Compilation Agent at any time may determine that a Component Stock which has been assigned to one Select Sector Index has undergone such a transformation in the composition of its business, and should be removed from that Select Sector Index and assigned to a different Select Sector Index. In the event that the Index Compilation Agent notifies S&P Dow Jones Indices that a Component Stock's Select Sector Index assignment should be changed, S&P Dow Jones Indices will disseminate notice of the change following its standard procedure for announcing index changes and will implement the change in the affected Select Sector Indices on a date no less than one week after the initial dissemination of information on the sector change to the maximum extent practicable. It is not anticipated that Component Stocks will change sectors frequently.

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Component Stocks removed from and added to the S&P 500<sup>®</sup> Index will be deleted from and added to the appropriate Select Sector Index on the same schedule used by S&P Dow Jones Indices for additions and deletions from the S&P 500<sup>®</sup> Index insofar as practicable.

### **The S&P 500<sup>®</sup> Index**

The S&P 500<sup>®</sup> Index includes a representative sample of 500 companies in leading industries of the U.S. economy. The S&P 500<sup>®</sup> Index is intended to provide an indication of the pattern of common stock price movement. The calculation of the level of the S&P 500<sup>®</sup> Index is based on the relative value of the aggregate market value of the common stocks of 500 companies as of a particular time compared to the aggregate average market value of the common stocks of 500 similar companies during the base period of the years 1941 through 1943.

Effective March 10, 2017, company additions to the S&P 500<sup>®</sup> Index must have an unadjusted company market capitalization of \$6.1 billion or more (an increase from the previous requirement of an unadjusted company market capitalization of \$5.3 billion or more).

The index sponsor calculates the S&P 500<sup>®</sup> Index by reference to the prices of the constituent stocks of the S&P 500<sup>®</sup> Index without taking account of the value of dividends paid on those stocks. As a result, the return on the notes will not reflect the return you would realize if you actually owned the index constituent stocks and received the dividends paid on those stocks. Additional information is available on the following websites: [us.spindices.com/indices/equity/sp-500](http://us.spindices.com/indices/equity/sp-500) and [spdji.com/](http://spdji.com/). We are not incorporating by reference the websites or any material they include in this pricing supplement.

### **Computation of the S&P 500<sup>®</sup> Index**

While the index sponsor currently employs the following methodology to calculate the S&P 500<sup>®</sup> Index, no assurance can be given that the index sponsor will not modify or change this methodology in a manner that may affect the Redemption Amount.

Historically, the market value of any component stock of the S&P 500<sup>®</sup> Index was calculated as the product of the market price per share and the number of then outstanding shares of such component stock. In March 2005, the index sponsor began shifting the S&P 500<sup>®</sup> Index halfway from a market capitalization weighted formula to a float-adjusted formula, before moving the S&P 500<sup>®</sup> Index to full float adjustment on September 16, 2005. The index sponsor's criteria for selecting stocks for the S&P 500<sup>®</sup> Index did not change with the shift to float adjustment. However, the adjustment affects each company's weight in the S&P 500<sup>®</sup> Index.

Under float adjustment, the share counts used in calculating the S&P 500<sup>®</sup> Index reflect only those shares that are available to investors, not all of a company's outstanding shares. Float adjustment excludes shares that are closely held by control groups, other publicly traded companies or government agencies.

In September 2012, all shareholdings representing more than 5% of a stock's outstanding shares, other than holdings by "block owners," were removed from the float for purposes of calculating the S&P 500<sup>®</sup> Index. Generally, these "control holders" will include officers and directors, private equity, venture capital and special equity firms, other publicly traded companies that hold shares for control, strategic partners, holders of restricted shares, ESOPs, employee and family trusts, foundations associated with the company, holders of unlisted share classes of stock, government entities at all levels (other than government retirement/pension funds) and any individual person who controls a 5% or greater stake in a company as reported in regulatory filings. However, holdings by block owners, such as depositary banks, pension funds, mutual funds and ETF providers, 401(k) plans of the company, government retirement/pension funds, investment funds of insurance companies, asset managers and investment funds, independent foundations and savings and investment plans, will ordinarily be considered part of the float.

Treasury stock, stock options, restricted shares, equity participation units, warrants, preferred stock, convertible stock, and rights are not part of the float. Shares held in a trust to allow investors in countries outside the country of domicile, such as depositary shares and Canadian exchangeable shares are normally part of the float unless those shares form a control block.

For each stock, an investable weight factor (“IWF”) is calculated by dividing the available float shares by the total shares outstanding. Available float shares are defined as the total shares outstanding less shares held by control holders. This calculation is subject to a 5% minimum threshold for control blocks. For example, if a company’s officers and directors hold 3% of the company’s shares, and no other control group holds 5% of the company’s shares, the index sponsor would assign that company an IWF of 1.00, as no control group meets the 5% threshold. However, if a company’s officers and directors hold 3% of the company’s shares and another control group holds 20% of the company’s shares, the index sponsor would assign an IWF of 0.77, reflecting the fact that 23% of the company’s outstanding shares are considered to be held for control. As of July 31, 2017, companies with multiple share class lines are no

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longer eligible for inclusion in the S&P 500<sup>®</sup> Index. Constituents of the S&P 500<sup>®</sup> Index prior to July 31, 2017 with multiple share class lines will be grandfathered in and continue to be included in the S&P 500<sup>®</sup> Index. If a constituent company of the S&P 500<sup>®</sup> Index reorganizes into a multiple share class line structure, that company will remain in the S&P 500<sup>®</sup> Index at the discretion of the S&P Index Committee in order to minimize turnover.

The S&P 500<sup>®</sup> Index is calculated using a base-weighted aggregate methodology. The level of the S&P 500<sup>®</sup> Index reflects the total market value of all component stocks relative to the base period of the years 1941 through 1943. An indexed number is used to represent the results of this calculation in order to make the level easier to work with and track over time. The actual total market value of the component stocks during the base period of the years 1941 through 1943 has been set to an indexed level of 10. This is often indicated by the notation 1941- 43 = 10. In practice, the daily calculation of the S&P 500<sup>®</sup> Index is computed by dividing the total market value of the component stocks by the “index divisor.” By itself, the index divisor is an arbitrary number. However, in the context of the calculation of the S&P 500<sup>®</sup> Index, it serves as a link to the original base period level of the S&P 500<sup>®</sup> Index. The index divisor keeps the S&P 500<sup>®</sup> Index comparable over time and is the manipulation point for all adjustments to the S&P 500<sup>®</sup> Index, which is index maintenance.

### **Index Maintenance**

Index maintenance includes monitoring and completing the adjustments for company additions and deletions, share changes, stock splits, stock dividends, and stock price adjustments due to company restructuring or spinoffs. Some corporate actions, such as stock splits and stock dividends, require changes in the common shares outstanding and the stock prices of the companies in the S&P 500<sup>®</sup> Index, and do not require index divisor adjustments.

To prevent the level of the S&P 500<sup>®</sup> Index from changing due to corporate actions, corporate actions which affect the total market value of the S&P 500<sup>®</sup> Index require an index divisor adjustment. By adjusting the index divisor for the change in market value, the level of the S&P 500<sup>®</sup> Index remains constant and does not reflect the corporate actions of individual companies in the S&P 500<sup>®</sup> Index. Index divisor adjustments are made after the close of trading and after the calculation of the index closing level.

Changes in a company’s shares outstanding and IWF due to its acquisition of another public company are made as soon as reasonably possible. At the index sponsor’s discretion, *de minimis* merger and acquisition share changes are accumulated and implemented with the quarterly share rebalancing.

All other changes of less than 5% are accumulated and made quarterly on the third Friday of March, June, September, and December.

Changes in a company’s total shares outstanding of 5% or more due to public offerings are made as soon as reasonably possible. Other changes of 5% or more (for example, due to tender offers, Dutch auctions, voluntary exchange offers, company stock repurchases, private placements, acquisitions of private companies or non-index companies that do not trade on a major exchange, redemptions, exercise of options, warrants, conversion of preferred stock, notes, debt, equity participations, at-the-market stock offerings or other recapitalizations) are made weekly, and are generally announced on Fridays for implementation after the close of trading the following Friday (one week later). If a 5% or more share change causes a company’s IWF to change by five percentage points or more, the IWF is updated at the same time as the share change. IWF changes resulting from partial tender offers are considered on a case-by-case basis.

Changes in IWFs of more than five percentage points caused by corporate actions (such as merger and acquisition activity, restructurings, or spinoffs) will be made as soon as reasonably possible. Other changes in IWFs will be made annually when IWFs are reviewed.



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*The following graph sets forth the daily historical performance of the XLY in the period from January 1, 2008 through April 23, 2019. This historical data on the XLY is not necessarily indicative of its future performance or what the value of the notes may be. Any historical upward or downward trend in the price of the XLY during any period set forth below is not an indication that the price of the XLY is more or less likely to increase or decrease at any time over the term of the notes. The horizontal red line in the graph represents its hypothetical Threshold Value of \$86.27 (rounded to two decimal places), assuming a Starting Value of \$120.24, which was the closing price of the XLY on April 23, 2019 (the actual Starting Value and Threshold Value of the XLY will be determined on the pricing date).*

Before investing in the notes, you should consult publicly available sources for the prices and trading pattern of the XLY.

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## **SUPPLEMENTAL PLAN OF DISTRIBUTION; ROLE OF MLPF&S AND CONFLICTS OF INTEREST**

MLPF&S, a broker-dealer affiliate of ours, is a member of the Financial Industry Regulatory Authority, Inc. (“FINRA”) and will participate as selling agent in the distribution of the notes. Accordingly, the offering of the notes will conform to the requirements of FINRA Rule 5121. MLPF&S may not make sales in this offering to any of its discretionary accounts without the prior written approval of the account holder.

Under our distribution agreement with MLPF&S, MLPF&S will purchase the notes from us as principal at the public offering price indicated on the cover of this term sheet, less the indicated underwriting discount. MLPF&S will sell the notes to other broker-dealers that will participate in the offering and that are not affiliated with us, at an agreed discount to the principal amount. Each of those broker-dealers may sell the notes to one or more additional broker-dealers. MLPF&S has informed us that these discounts may vary from dealer to dealer and that not all dealers will purchase or repurchase the notes at the same discount. Certain dealers who purchase the notes for sale to certain fee-based advisory accounts may forgo some or all of their selling concessions, fees or commissions. The public offering price for investors purchasing the notes in these fee-based advisory accounts may be as low as \$982.50 per note.

We expect to deliver the notes against payment therefor in New York, New York on a date that is greater than two business days following the pricing date. 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, if the initial settlement of the notes occurs more than two business days from the pricing date, purchasers who wish to trade the notes more than two business days prior to the original issue date will be required to specify alternative settlement arrangements to prevent a failed settlement.

The current business of MLPF&S is being reorganized into two affiliated broker-dealers: MLPF&S and a new broker-dealer, BofA Securities, Inc. (“BofAS”). BofAS will be the new legal entity for the institutional services that are now provided by MLPF&S. MLPF&S will be assigning its rights and obligations as selling agent for the notes under our distribution agreement to BofAS effective on the “Transfer Date”. Accordingly, if the pricing date of the notes occurs on or after the Transfer Date, BofAS will be responsible for the pricing of the notes. If the settlement date of the notes occurs on or after the Transfer Date, BofAS will, subject to the terms and conditions of the distribution agreement, purchase the notes from us as principal on the settlement date and BofAS will sell the notes to other broker-dealers that will participate in the offering as discussed in the prior paragraph.

MLPF&S and any of our other broker-dealer affiliates, may use this pricing supplement, and the accompanying product supplement, prospectus supplement and prospectus for offers and sales in secondary market transactions and market-making transactions in the notes. However, they are not obligated to engage in such secondary market transactions and/or market-making transactions. The selling agent may act as principal or agent in these transactions, and any such sales will be made at prices related to prevailing market conditions at the time of the sale.

At MLPF&S’s discretion, for a short, undetermined initial period after the issuance of the notes, MLPF&S may offer to buy the notes in the secondary market at a price that may exceed the initial estimated value of the notes. Any price offered by MLPF&S for the notes will be based on then-prevailing market conditions and other considerations, including the performance of the Underlyings and the remaining term of the notes. However, none of us, the Guarantor, MLPF&S or any of our other affiliates is obligated to purchase your notes at any price or at any time, and we cannot assure you that any party will purchase your notes at a price that equals or exceeds the initial estimated value of the notes.

Any price that MLPF&S may pay to repurchase the notes will depend upon then prevailing market conditions, the creditworthiness of us and the Guarantor, and transaction costs. At certain times, this price may be higher than or lower than the initial estimated value of the notes.

No Prospectus (as defined in Directive 2003/71/EC, as amended (the “Prospectus Directive”)) will be prepared in connection with these notes. Accordingly, these notes may not be offered to the public in any member state of the European Economic Area (the “EEA”), and any purchaser of these notes who subsequently sells any of these notes in any EEA member state must do so only in accordance with the requirements of the Prospectus Directive, as implemented in that member state.

The notes are not intended to be offered, sold or otherwise made available to, and should not be offered, sold or otherwise made available to, any retail investor in the EEA. For these purposes, the

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expression “offer” includes the communication in any form and by any means of sufficient information on the terms of the offer and the notes to be offered so as to enable an investor to decide to purchase or subscribe the notes, and a “retail investor” means a person who is one (or more) of: (a) a retail client, as defined in point (11) of Article 4(1) of Directive 2014/65/EU, as amended (“MiFID II”); or (b) a customer, within the meaning of Insurance Distribution Directive 2016/97/EU, as amended, where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or (c) not a qualified investor as defined in the Prospectus Directive. Consequently, no key information document required by Regulation (EU) No 1286/2014, as amended (the “PRIIPs Regulation”), for offering or selling the notes or otherwise making them available to retail investors in the EEA has been prepared, and therefore, offering or selling the notes or otherwise making them available to any retail investor in the EEA may be unlawful under the PRIIPs Regulation.

### **MLPF&S Reorganization**

As discussed above under “Supplemental Plan of Distribution; Role of MLPF&S and Conflicts Of Interest”, the current business of MLPF&S is being reorganized into two affiliated broker-dealers. Effective on the Transfer Date, BofAS will be the new legal entity for the institutional services that are now provided by MLPF&S. As such, beginning on the Transfer Date, the institutional services currently being provided by MLPF&S, including acting as selling agent for the notes, acting as calculation agent for the notes, acting as principal or agent in secondary market-making transactions for the notes, estimating the value of the notes using pricing models, and entering into hedging arrangements with respect to the notes, are expected to be provided by BofAS. Accordingly, references to MLPF&S in this preliminary pricing supplement as such references relate to MLPF&S’s institutional services, such as those described above, should be read as references to BofAS to the extent these services are to be performed on or after the Transfer Date.

## **STRUCTURING THE NOTES**

The notes are our debt securities, the return on which is linked to the performance of the Underlyings. The related guarantees are BAC's obligations. As is the case for all of our and BAC's respective debt securities, including our market-linked notes, the economic terms of the notes reflect our and BAC's actual or perceived creditworthiness at the time of pricing. In addition, because market-linked notes result in increased operational, funding and liability management costs to us and BAC, BAC typically borrows the funds under these types of notes at a rate, which we refer to in this pricing supplement as BAC's internal funding rate, that is more favorable to BAC than the rate that it might pay for a conventional fixed or floating rate debt security. This generally relatively lower internal funding rate, which is reflected in the economic terms of the notes, along with the fees and charges associated with market-linked notes, typically results in the initial estimated value of the notes on the pricing date being less than their public offering price.

In order to meet our payment obligations on the notes, at the time we issue the notes, we may choose to enter into certain hedging arrangements (which may include call options, put options or other derivatives) with MLPF&S or one of our other affiliates. The terms of these hedging arrangements are determined based upon terms provided by MLP&S and its affiliates, and take into account a number of factors, including our and BAC's creditworthiness, interest rate movements, the volatility of the Underlyings, the tenor of the notes and the hedging arrangements. The economic terms of the notes and their initial estimated value depend in part on the terms of these hedging arrangements.

MLPF&S has advised us that the hedging arrangements will include hedging related charges, reflecting the costs associated with, and our affiliates' profit earned from, these hedging arrangements. Since hedging entails risk and may be influenced by unpredictable market forces, actual profits or losses from these hedging transactions may be more or less than any expected amounts.

For further information, see "Risk Factors" beginning on page PS-8 above and "Supplemental Use of Proceeds" on page PS-16 of product supplement EQUITY-1.

## U.S. FEDERAL INCOME TAX SUMMARY

The following summary of the material U.S. federal income tax considerations of the acquisition, ownership, and disposition of the notes supplements, and to the extent inconsistent supersedes, the discussions under “U.S. Federal Income Tax Considerations” in the accompanying prospectus and under “U.S. Federal Income Tax Considerations” in the accompanying prospectus supplement and is not exhaustive of all possible tax considerations. In addition, any reference to “Morrison & Foerster LLP” in the aforementioned tax discussions in the accompanying prospectus and prospectus supplement should be read as a reference to “Sidley Austin LLP.” This summary is based upon the Internal Revenue Code of 1986, as amended (the “Code”), regulations promulgated under the Code by the U.S. Treasury Department (“Treasury”) (including proposed and temporary regulations), rulings, current administrative interpretations and official pronouncements of the IRS, and judicial decisions, all as currently in effect and all of which are subject to differing interpretations or to change, possibly with retroactive effect. No assurance can be given that the IRS would not assert, or that a court would not sustain, a position contrary to any of the tax consequences described below. This summary does not include any description of the tax laws of any state or local governments, or of any foreign government, that may be applicable to a particular holder.

Although the notes are issued by us, they will be treated as if they were issued by Bank of America Corporation for U.S. federal income tax purposes. Accordingly throughout this tax discussion, references to “we,” “our” or “us” are generally to Bank of America Corporation unless the context requires otherwise.

This summary is directed solely to U.S. Holders and Non-U.S. Holders that, except as otherwise specifically noted, will purchase the notes upon original issuance and will hold the notes as capital assets within the meaning of Section 1221 of the Code, which generally means property held for investment, and that are not excluded from the discussion under “U.S. Federal Income Tax Considerations” in the accompanying prospectus.

*You should consult your own tax advisor concerning the U.S. federal income tax consequences to you of acquiring, owning, and disposing of the notes, as well as any tax consequences arising under the laws of any state, local, foreign, or other tax jurisdiction and the possible effects of changes in U.S. federal or other tax laws.*

### General

Although there is no statutory, judicial, or administrative authority directly addressing the characterization of the notes, we intend to treat the notes for all tax purposes as contingent income-bearing single financial contracts with respect to the Underlyings and under the terms of the notes, we and every investor in the notes agree, in the absence of an administrative determination or judicial ruling to the contrary, to treat the notes in accordance with such characterization. In the opinion of our counsel, Sidley Austin LLP, it is reasonable to treat the notes as contingent income-bearing single financial contracts with respect to the Underlyings. However, Sidley Austin LLP has advised us that it is unable to conclude that it is more likely than not that this treatment will be upheld. This discussion assumes that the notes constitute contingent income-bearing single financial contracts with respect to the Underlyings for U.S. federal income tax purposes. If the notes did not constitute contingent income-bearing single financial contracts, the

tax consequences described below would be materially different.

*This characterization of the notes is not binding on the IRS or the courts. No statutory, judicial, or administrative authority directly addresses the characterization of the notes or any similar instruments for U.S. federal income tax purposes, and no ruling is being requested from the IRS with respect to their proper characterization and treatment. Due to the absence of authorities on point, significant aspects of the U.S. federal income tax consequences of an investment in the notes are not certain, and no assurance can be given that the IRS or any court will agree with the characterization and tax treatment described in this pricing supplement. Accordingly, you are urged to consult your tax advisor regarding all aspects of the U.S. federal income tax consequences of an investment in the notes, including possible alternative characterizations.*

Unless otherwise stated, the following discussion is based on the characterization described above. The discussion in this section assumes that there is a significant possibility of a significant loss of principal on an investment in the notes.

#### **U.S. Holders**

Although the U.S. federal income tax treatment of any Contingent Coupon Payment on the notes is uncertain, we intend to take the position, and the following discussion assumes, that any Contingent

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Coupon Payment constitutes taxable ordinary income to a U.S. Holder at the time received or accrued in accordance with the U.S. Holder's regular method of accounting. By purchasing the notes you agree, in the absence of an administrative determination or judicial ruling to the contrary, to treat any Contingent Coupon Payment as described in the preceding sentence.

Upon receipt of a cash payment at maturity or upon a sale, exchange, or redemption of the notes prior to maturity, a U.S. Holder generally will recognize capital gain or loss equal to the difference between the amount realized (other than amounts representing any Contingent Coupon Payment, which would be taxed as described above) and the U.S. Holder's tax basis in the notes. A U.S. Holder's tax basis in the notes will equal the amount paid by that holder to acquire them. Subject to the discussion below concerning the possible application of the "constructive ownership" rules of Section 1260 of the Code, this capital gain or loss generally will be long-term capital gain or loss if the U.S. Holder held the notes for more than one year. The deductibility of capital losses is subject to limitations.

*Possible Application of Section 1260 of the Code.* Since each Underlying is the type of financial asset described under Section 1260 of the Code (including, among others, any equity interest in pass-through entities such as exchange traded funds, regulated investment companies, real estate investment trusts, partnerships, and passive foreign investment companies, each a "Section 1260 Financial Asset"), while the matter is not entirely clear, there may exist a risk that an investment in the notes will be treated, in whole or in part, as a "constructive ownership transaction" to which Section 1260 of the Code applies. If Section 1260 of the Code applies, all or a portion of any long-term capital gain recognized by a U.S. Holder in respect of the notes will be recharacterized as ordinary income (the "Excess Gain"). In addition, an interest charge will also apply to any deemed underpayment of tax in respect of any Excess Gain to the extent such gain would have resulted in gross income inclusion for the U.S. Holder in taxable years prior to the taxable year of the sale, exchange, redemption, or settlement (assuming such income accrued at a constant rate equal to the applicable federal rate as of the date of sale, exchange, redemption, or settlement).

If an investment in the notes is treated as a constructive ownership transaction, it is not clear to what extent any long-term capital gain of a U.S. Holder in respect of the notes will be recharacterized as ordinary income. It is possible, for example, that the amount of the Excess Gain (if any) that would be recharacterized as ordinary income in respect of the notes will equal the excess of (i) any long-term capital gain recognized by the U.S. Holder in respect of the notes and attributable to Section 1260 Financial Assets, over (ii) the "net underlying long-term capital gain" (as defined in Section 1260 of the Code) such U.S. Holder would have had if such U.S. Holder had acquired an amount of the corresponding Section 1260 Financial Assets at fair market value on the original issue date for an amount equal to the portion of the issue price of the notes attributable to the corresponding Section 1260 Financial Assets and sold such amount of Section 1260 Financial Assets at maturity or upon sale, exchange, or redemption of the notes at fair market value. Unless otherwise established by clear and convincing evidence, the net underlying long-term capital gain is treated as zero and therefore it is possible that all long-term capital gain recognized by a U.S. Holder in respect of the notes will be recharacterized as ordinary income if Section 1260 of the Code applies to an investment in the notes. U.S. Holders should consult their tax advisors regarding the potential application of Section 1260 of the Code to an investment in the notes.

As described below, the IRS, as indicated in Notice 2008-2 (the "Notice"), is considering whether Section 1260 of the Code generally applies or should apply to the notes, including in situations where the Underlying is not the type of financial asset described under Section 1260 of the Code.

*Alternative Tax Treatments.* Due to the absence of authorities that directly address the proper tax treatment of the notes, prospective investors are urged to consult their tax advisors regarding all possible alternative tax treatments of an investment in the notes. In particular, the IRS could seek to subject the notes to the Treasury regulations governing contingent payment debt instruments. If the IRS were successful in that regard, the timing and character of income on the notes would be affected significantly. Among other things, a U.S. Holder would be required to accrue original issue discount every year at a “comparable yield” determined at the time of issuance. In addition, any gain realized by a U.S. Holder at maturity or upon a sale, exchange, or redemption of the notes generally would be treated as ordinary income, and any loss realized at maturity or upon sale, exchange, or redemption of the notes generally would be treated as ordinary loss to the extent of the U.S. Holder’s prior accruals of original issue discount, and as capital loss thereafter.

In addition, it is possible that the notes could be treated as a unit consisting of a deposit and a put option written by the note holder, in which case the timing and character of income on the notes would be affected significantly.

The Notice sought comments from the public on the taxation of financial instruments currently taxed as “prepaid forward contracts.” This Notice addresses instruments such as the notes. According to

the Notice, the IRS and Treasury are considering whether a holder of an instrument such as the notes should be required to accrue ordinary income on a current basis, regardless of whether any payments are made prior to maturity. It is not possible to determine what guidance the IRS and Treasury will ultimately issue, if any. Any such future guidance may affect the amount, timing and character of income, gain, or loss in respect of the notes, possibly with retroactive effect.

The IRS and Treasury are also considering additional issues, including whether additional gain or loss from such instruments should be treated as ordinary or capital, whether foreign holders of such instruments should be subject to withholding tax on any deemed income accruals, whether Section 1260 of the Code, concerning certain “constructive ownership transactions,” generally applies or should generally apply to such instruments, and whether any of these determinations depend on the nature of the underlying asset.

In addition, proposed Treasury regulations require the accrual of income on a current basis for contingent payments made under certain notional principal contracts. The preamble to the regulations states that the “wait and see” method of accounting does not properly reflect the economic accrual of income on those contracts, and requires current accrual of income for some contracts already in existence. While the proposed regulations do not apply to prepaid forward contracts, the preamble to the proposed regulations expresses the view that similar timing issues exist in the case of prepaid forward contracts. If the IRS or Treasury publishes future guidance requiring current economic accrual for contingent payments on prepaid forward contracts, it is possible that you could be required to accrue income over the term of the notes.

Because of the absence of authority regarding the appropriate tax characterization of the notes, it is also possible that the IRS could seek to characterize the notes in a manner that results in tax consequences that are different from those described above. For example, the IRS could possibly assert that any gain or loss that a holder may recognize at maturity or upon the sale, exchange or redemption of the notes should be treated as ordinary gain or loss.

### **Non-U.S. Holders**

Because the U.S. federal income tax treatment of the notes (including any Contingent Coupon Payment) is uncertain, we will withhold U.S. federal income tax at a 30% rate (or at a lower rate under an applicable income tax treaty) on the entire amount of any Contingent Coupon Payment made unless such payments are effectively connected with the conduct by the Non-U.S. Holder of a trade or business in the U.S. (in which case, to avoid withholding, the Non-U.S. Holder will be required to provide a Form W-8ECI). We will not pay any additional amounts in respect of such withholding. To claim benefits under an income tax treaty, a Non-U.S. Holder must obtain a taxpayer identification number and certify as to its eligibility under the appropriate treaty’s limitations on benefits article, if applicable. In addition, special rules may apply to claims for treaty benefits made by Non-U.S. Holders that are entities rather than individuals. The availability of a lower rate of withholding under an applicable income tax treaty will depend on whether such rate applies to the characterization of the payments under U.S. federal income tax laws. A Non-U.S. Holder that is eligible for a reduced rate of U.S. federal withholding tax pursuant to an income tax treaty may obtain a refund of any excess amounts withheld by filing an appropriate claim for refund with the IRS.

Except as discussed below, a Non-U.S. Holder generally will not be subject to U.S. federal income or withholding tax for amount paid in respect of the notes (not including, for the avoidance of doubt, any amounts representing accrued Contingent Coupon Payments which would be subject to the rules discussed in the previous paragraph) upon the sale, exchange or redemption of the notes or their settlement at maturity, provided that the Non-U.S. Holder complies with applicable certification requirements and that the payment is not effectively connected with the conduct by the Non-U.S. Holder of a U.S. trade or business. Notwithstanding the foregoing, gain from the sale, exchange, or redemption of the notes or their settlement at maturity may be subject to U.S. federal income tax if that Non-U.S. Holder is a non-resident alien individual and is present in the U.S. for 183 days or more during the taxable year of the sale, exchange, redemption, or settlement and certain other conditions are satisfied.

If a Non-U.S. Holder of the notes is engaged in the conduct of a trade or business within the U.S. and if any Contingent Coupon Payment and gain realized on the settlement at maturity, or upon sale, exchange, or redemption of the notes, is effectively connected with the conduct of such trade or business (and, if certain tax treaties apply, is attributable to a permanent establishment maintained by the Non-U.S. Holder in the U.S.), the Non-U.S. Holder, although exempt from U.S. federal withholding tax, generally will be subject to U.S. federal income tax on such Contingent Coupon Payment and gain on a net income basis in the same manner as if it were a U.S. Holder. Such Non-U.S. Holders should read the material under the heading “—U.S. Holders,” for a description of the U.S. federal income tax consequences of acquiring, owning, and disposing of the notes. In addition, if such Non-U.S. Holder is a

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foreign corporation, it may also be subject to a branch profits tax equal to 30% (or such lower rate provided by any applicable tax treaty) of a portion of its earnings and profits for the taxable year that are effectively connected with its conduct of a trade or business in the U.S., subject to certain adjustments.

A “dividend equivalent” payment is treated as a dividend from sources within the United States and such payments generally would be subject to a 30% U.S. withholding tax if paid to a Non-U.S. Holder. Under Treasury regulations, payments (including deemed payments) with respect to equity-linked instruments (“ELIs”) that are “specified ELIs” may be treated as dividend equivalents if such specified ELIs reference an interest in an “underlying security,” which is generally any interest in an entity taxable as a corporation for U.S. federal income tax purposes if a payment with respect to such interest could give rise to a U.S. source dividend. However, IRS guidance provides that withholding on dividend equivalent payments will not apply to specified ELIs that are not delta-one instruments and that are issued before January 1, 2021. Based on our determination that the notes are not delta-one instruments, Non-U.S. Holders should not be subject to withholding on dividend equivalent payments, if any, under the notes. However, it is possible that the notes could be treated as deemed reissued for U.S. federal income tax purposes upon the occurrence of certain events affecting the Underlyings or the notes, and following such occurrence the notes could be treated as subject to withholding on dividend equivalent payments. Non-U.S. Holders that enter, or have entered, into other transactions in respect of the Underlyings or the notes should consult their tax advisors as to the application of the dividend equivalent withholding tax in the context of the notes and their other transactions. If any payments are treated as dividend equivalents subject to withholding, we (or the applicable paying agent) would be entitled to withhold taxes without being required to pay any additional amounts with respect to amounts so withheld.

As discussed above, alternative characterizations of the notes for U.S. federal income tax purposes are possible. Should an alternative characterization, by reason of change or clarification of the law, by regulation or otherwise, cause payments as to the notes to become subject to withholding tax in addition to the withholding tax described above, tax will be withheld at the applicable statutory rate. Prospective Non-U.S. Holders should consult their own tax advisors regarding the tax consequences of such alternative characterizations.

*U.S. Federal Estate Tax.* Under current law, while the matter is not entirely clear, individual Non-U.S. Holders, and entities whose property is potentially includible in those individuals’ gross estates for U.S. federal estate tax purposes (for example, a trust funded by such an individual and with respect to which the individual has retained certain interests or powers), should note that, absent an applicable treaty benefit, a note is likely to be treated as U.S. situs property, subject to U.S. federal estate tax. These individuals and entities should consult their own tax advisors regarding the U.S. federal estate tax consequences of investing in a note.

## **Backup Withholding and Information Reporting**

Please see the discussion under “U.S. Federal Income Tax Considerations — Taxation of Debt Securities — Backup Withholding and Information Reporting” in the accompanying prospectus for a description of the applicability of the backup withholding and information reporting rules to payments made on the notes.

**Foreign Account Tax Compliance Act (“FATCA”)**

The discussion in the accompanying prospectus under “U.S. Federal Income Tax Considerations – Foreign Account Tax Compliance Act” is hereby modified to reflect regulations proposed by Treasury 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. Treasury has indicated that taxpayers may rely on these proposed regulations pending their finalization.

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