

GOLDMAN SACHS GROUP INC

Form 424B2

November 30, 2018

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

Subject to Completion. Dated November 29, 2018.

GS Finance Corp.

\$

Autocallable Contingent Coupon Index-Linked Notes due  
guaranteed by

The Goldman Sachs Group, Inc.

If the closing level of either the EURO STOXX 50<sup>®</sup> Index or the S&P 500<sup>®</sup> Index on any observation date is less than 60% of its initial level, you will not receive a coupon on the applicable payment date. The amount that you will be paid on your notes is based on the performances of the indexes. The notes will mature on the stated maturity date (expected to be December 29, 2028), unless automatically called on any observation date commencing in December 2019 to and including September 2028. Your notes will be automatically called if the closing level of each index on any such observation date is greater than or equal to its initial level (set on the trade date, expected to be December 21, 2018). If your notes are automatically called, you will receive a payment on the next payment date (the fifth business day after the relevant observation date) equal to the face amount of your notes plus a coupon (as described below). Observation dates are expected to be the 21st day of each March, June, September and December, commencing in March 2019 and ending in December 2028. If on any observation date the closing level of each index is greater than or equal to 60% of its initial level, you will receive on the applicable payment date a coupon for each \$1,000 face amount of your notes equal to \$15.

The amount that you will be paid on your notes at maturity, if they have not been automatically called, in addition to the final coupon, if any, is based on the performance of the index with the lowest index return. The index return for each index is the percentage increase or decrease in the closing level of such index on the final observation date (expected to be December 21, 2028) from its initial level.

At maturity, for each \$1,000 face amount of your notes you will receive an amount in cash equal to:

if the index return of each index is greater than or equal to -40% (the final level of each index is greater than or equal to 60% of its initial level), \$1,000 plus a coupon calculated as described above; or  
if the index return of any index is less than -40% (the final level of any index is less than 60% of its initial level), the sum of (i) \$1,000 plus (ii) the product of (a) the lesser performing index return times (b) \$1,000. You will receive less than 60% of the face amount of your notes and no coupon.

If the index return for any index is less than -40%, the percentage of the face amount of your notes you will receive will be based on the performance of the index with the lowest index return. In such event, you will receive less than 60% of the face amount of your notes and no coupon.

You should read the disclosure herein to better understand the terms and risks of your investment, including the credit risk of GS Finance Corp. and The Goldman Sachs Group, Inc. See page PS-11.

The estimated value of your notes at the time the terms of your notes are set on the trade date is expected to be between \$900 and \$950 per \$1,000 face amount. For a discussion of the estimated value and the price at which Goldman Sachs & Co. LLC would initially buy or sell your notes, if it makes a market in the notes, see the following page.

Original issue date: expected to be December 28, 2018 Original issue price: 100% of the face amount\*

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

\*The original issue price will be % for certain investors; see "Supplemental Plan of Distribution; Conflicts of Interest" on page PS-23.

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

Goldman Sachs & Co. LLC

Pricing Supplement No.     dated     , 2018.

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

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

### Estimated Value of Your Notes

The estimated value of your notes at the time the terms of your notes are set on the trade date (as determined by reference to pricing models used by Goldman Sachs & Co. LLC (GS&Co.) and taking into account our credit spreads) is expected to be between \$900 and \$950 per \$1,000 face amount, which is less than the original issue price. The value of your notes at any time will reflect many factors and cannot be predicted; however, the price (not including GS&Co.'s customary bid and ask spreads) at which GS&Co. would initially buy or sell notes (if it makes a market, which it is not obligated to do) and the value that GS&Co. will initially use for account statements and otherwise is equal to approximately the estimated value of your notes at the time of pricing, plus an additional amount (initially equal to \$      per \$1,000 face amount).

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

### About Your Prospectus

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

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

Prospectus supplement dated July 10, 2017

Prospectus dated July 10, 2017

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

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



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TERMS AND CONDITIONS

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

These terms and conditions relate to pricing supplement no. dated , 2018 of GS Finance Corp. and The Goldman Sachs Group, Inc. with respect to the issuance by GS Finance Corp. of its Autocallable Contingent Coupon Index-Linked Notes due and the guarantee thereof by The Goldman Sachs Group, Inc.

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

CUSIP / ISIN: 40056EKE7 / US40056EKE76

Company (Issuer): GS Finance Corp.

Guarantor: The Goldman Sachs Group, Inc.

Underliers (each individually, an underlier): the EURO STOXX 50<sup>®</sup> Index (current Bloomberg symbol: “SX5E Index”), or any successor underlier, and the S&P 500<sup>®</sup> Index (current Bloomberg symbol: “SPX Index”), or any successor underlier, as each may be modified, replaced or adjusted from time to time as provided herein

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

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

Principal amount: Subject to redemption by the company as provided under “— Company’s redemption right (automatic call feature)” below, on the stated maturity date, in addition to the final coupon, if any, the company will pay, for each \$1,000 of the outstanding face amount, an amount, if any, in cash equal to the cash settlement amount.

Cash settlement amount:

if the final underlier level of each underlier is greater than or equal to its trigger buffer level, \$1,000 or

if the final underlier level of any underlier is less than its trigger buffer level, the sum of (i) \$1,000 plus (ii) the product of (a) the lesser performing underlier return times (b) \$1,000

Company’s redemption right (automatic call feature): if a redemption event occurs, then the outstanding face amount will be automatically redeemed in whole and the company will pay, in addition to the coupon then due, an amount in cash on the following call payment date, for each \$1,000 of the outstanding face amount, equal to \$1,000

Redemption event: a redemption event will occur if, as measured on any call observation date, the closing level of each underlier is greater than or equal to its initial underlier level

Initial underlier level (set on the trade date): with respect to an underlier, the closing level of such underlier on the trade date

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

Underlier return: with respect to an underlier on the determination date, the quotient of (i) its final underlier level minus its initial underlier level divided by (ii) its initial underlier level, expressed as a positive or negative percentage

Lesser performing underlier return: the underlier return of the lesser performing underlier

Lesser performing underlier: the underlier with the lowest underlier return

Trigger buffer level: for each underlier, 60% of its initial underlier level

Coupon: subject to the company’s redemption right, on each coupon payment date, for each \$1,000 of the outstanding face amount, the company will pay an amount in cash equal to:

if the closing level of each underlier on the related coupon observation date is greater than or equal to its coupon trigger level, \$15 or

if the closing level of any underlier on the related coupon observation date is less than its coupon trigger level, \$0

Coupon trigger level: for each underlier, 60% of its initial underlier level

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Trade date: expected to be December 21, 2018

Original issue date (set on the trade date): expected to be December 28, 2018

Determination date (set on the trade date): expected to be December 21, 2028, unless the calculation agent determines that, with respect to any underlier, a market disruption event occurs or is continuing on that day or that day is not otherwise a trading day. In the event the originally scheduled determination date is a non-trading day with respect to any underlier, the determination date will be the first day thereafter that is a trading day for all underliers (the “first qualified trading day”) provided that no market disruption event occurs or is continuing with respect to an underlier on that day. If a market disruption event with respect to an underlier occurs or is continuing on the originally scheduled determination date or the first qualified trading day, the determination date will be the first following trading day on which the calculation agent determines that each underlier has had at least one trading day (from and including the originally scheduled determination date or the first qualified trading day, as applicable) on which no market disruption event has occurred or is continuing and the closing level of each underlier will be determined on or prior to the postponed determination date as set forth under “— Consequences of a market disruption event or a non-trading day” below. (In such case, the determination date may differ from the date on which the level of an underlier is determined for the purpose of the calculations to be performed on the determination date.) In no event, however, will the determination date be postponed to a date later than the originally scheduled stated maturity date or, if the originally scheduled stated maturity date is not a business day, later than the first business day after the originally scheduled stated maturity date, either due to the occurrence of serial non-trading days or due to the occurrence of one or more market disruption events. On such last possible determination date, if a market disruption event occurs or is continuing with respect to an underlier that has not yet had such a trading day on which no market disruption event has occurred or is continuing or if such last possible day is not a trading day with respect to such underlier, that day will nevertheless be the determination date.

Stated maturity date (set on the trade date): expected to be December 29, 2028, unless that day is not a business day, in which case the stated maturity date will be postponed to the next following business day. The stated maturity date will also be postponed if the determination date is postponed as described under “— Determination date” above. In such a case, the stated maturity date will be postponed by the same number of business day(s) from but excluding the originally scheduled determination date to and including the actual determination date.

Call observation dates (set on the trade date): expected to be each coupon observation date commencing in December 2019 and ending in September 2028, subject to adjustment as described under “— Coupon observation dates” below

Call payment dates: expected to be the fifth business day after each call observation date, subject to adjustment as provided under “— Call observation dates” above

Coupon observation dates (set on the trade date): expected to be the 21st day of each March, June, September and December, commencing in March 2019 and ending in December 2028, unless the calculation agent determines that, with respect to any underlier, a market disruption event occurs or is continuing on that day or that day is not otherwise a trading day

In the event the originally scheduled coupon observation date is a non-trading day with respect to any underlier, the coupon observation date will be the first day thereafter that is a trading day for all underliers (the “first qualified coupon trading day”) provided that no market disruption event occurs or is continuing with respect to an underlier on that day. If a market disruption event with respect to an underlier occurs or is continuing on the originally scheduled coupon observation date or the first qualified coupon trading day, the coupon observation date will be the first following trading day on which the calculation agent determines that each underlier has had at least one trading day (from and including the originally scheduled coupon observation date or the first qualified coupon trading day, as applicable) on which no market disruption event has occurred or is continuing and the closing level of each underlier for that coupon observation date will be determined on or prior to the postponed coupon observation date as set forth under “— Consequences of a market disruption event or a non-trading day” below. (In such case, the coupon observation date may differ from the date on which the level of an underlier is determined for the purpose of the calculations to be performed on the coupon observation date.) In no event, however, will the coupon observation date be postponed to a date later than the originally scheduled coupon payment date or, if the originally scheduled coupon payment date is not a business day, later than the first business day after the originally scheduled coupon payment date, either due to the occurrence of serial non-trading days or due to the occurrence of one or more market disruption events. On such

last possible coupon observation date applicable to the relevant coupon payment date, if a market disruption event occurs or is continuing with respect to an underlier that has not yet had such a trading day on which no market disruption event has occurred or is continuing or if such last possible day is not a trading day with respect to such underlier, that day will nevertheless be the coupon observation date.

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Coupon payment dates (set on the trade date): expected to be the fifth business day after each coupon observation date to and including the stated maturity date, subject to adjustment as described under “— Coupon observation dates” above

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

Trading day: (i) with respect to the EURO STOXX 50<sup>®</sup> Index, a day on which such underlier is calculated and published by the underlier sponsor and (ii) with respect to the S&P 500<sup>®</sup> Index, a day on which the respective principal securities markets for all of its underlier stocks are open for trading, the underlier sponsor is open for business and such underlier is calculated and published by the underlier sponsor

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

Underlier sponsor: with respect to an underlier, at any time, the person or entity, including any successor sponsor, that determines and publishes such underlier as then in effect. The notes are not sponsored, endorsed, sold or promoted by any underlier sponsor or any affiliate thereof and no underlier sponsor or affiliate thereof makes any representation regarding the advisability of investing in the notes.

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

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

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

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

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

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

The following events will not be market disruption events:

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

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

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

a price change exceeding limits set by that market,

an imbalance of orders relating to that underlier stock or those contracts, or

a disparity in bid and ask quotes relating to that underlier stock or those contracts,

will constitute a suspension or material limitation of trading in that stock or those contracts in that market.

A market disruption event with respect to one underlier will not, by itself, constitute a market disruption event for the other unaffected underlier.



As is the case throughout this pricing supplement, references to the underlier in this description of market disruption events includes any successor underlier as it may be modified, replaced or adjusted from time to time.

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Consequences of a market disruption event or a non-trading day: With respect to any underlier, if a market disruption event occurs or is continuing on a day that would otherwise be a coupon observation date or the determination date, or such day is not a trading day, then such coupon observation date or the determination date will be postponed as described under “— Coupon observation dates” or “— Determination date” above. If any coupon observation date or the determination date is postponed to the last possible date due to the occurrence of serial non-trading days, the level of each underlier will be the calculation agent’s assessment of such level, in its sole discretion, on such last possible postponed coupon observation date or determination date, as applicable. If any coupon observation date or the determination date is postponed due to a market disruption event with respect to any underlier, the closing level of each underlier with respect to such coupon observation date or the final underlier level with respect to the determination date, as applicable, will be calculated based on (i) for any underlier that is not affected by a market disruption event on (A) the applicable originally scheduled coupon observation date or the first qualified coupon trading day thereafter (if applicable) or (B) the originally scheduled determination date or the first qualified trading day thereafter (if applicable), the closing level of the underlier on that date, (ii) for any underlier that is affected by a market disruption event on (A) the applicable originally scheduled coupon observation date or the first qualified coupon trading day thereafter (if applicable) or (B) the originally scheduled determination date or the first qualified trading day thereafter (if applicable), the closing level of the underlier on the first following trading day on which no market disruption event exists for such underlier and (iii) the calculation agent’s assessment, in its sole discretion, of the level of any underlier on the last possible postponed coupon observation date or determination date, as applicable, with respect to such underlier as to which a market disruption event continues through the last possible postponed coupon observation date or determination date. As a result, this could result in the closing level on any coupon observation date or final underlier level on the determination date of each underlier being determined on different calendar dates. For the avoidance of doubt, once the closing level for an underlier is determined for a coupon observation date or determination date, the occurrence of a later market disruption event or non-trading day will not alter such calculation.

Discontinuance or modification of an underlier: If an underlier sponsor discontinues publication of an underlier and such underlier sponsor or anyone else publishes a substitute underlier that the calculation agent determines is comparable to such underlier and approves as a successor underlier, or if the calculation agent designates a substitute underlier, then the calculation agent will determine the coupon payable, if any, on the relevant coupon payment date, the amount payable on the call payment date or the amount in cash on the stated maturity date, as applicable, by reference to such successor underlier.

If the calculation agent determines on a coupon observation date or the determination date, as applicable, that the publication of an underlier is discontinued and there is no successor underlier, the calculation agent will determine the coupon or the cash settlement amount, as applicable, on the related coupon payment date or the stated maturity date, as applicable, by a computation methodology that the calculation agent determines will as closely as reasonably possible replicate such underlier.

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

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

Regular record dates: the scheduled business day immediately preceding the day on which payment is to be made (as such payment date may be adjusted)

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

Tax characterization: The holder, on behalf of itself and any other person having a beneficial interest in this note, hereby agrees with the company (in the absence of a change in law, an administrative determination or a judicial ruling to the contrary) to characterize this note for all U.S. federal income tax purposes as an income-bearing pre-paid derivative contract in respect of the underliers.

Overdue principal rate and overdue coupon rate: the effective Federal Funds rate

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## HYPOTHETICAL EXAMPLES

The following examples are provided for purposes of illustration only. They should not be taken as an indication or prediction of future investment results and are intended merely to illustrate (i) the impact that various hypothetical closing levels of the underliers on a coupon observation date could have on the coupon payable, if any, on the related coupon payment date and (ii) the impact that various hypothetical closing levels of the lesser performing underlier on the determination date could have on the cash settlement amount at maturity assuming all other variables remain constant.

The examples below are based on a range of underlier levels that are entirely hypothetical; no one can predict what the closing level of any underlier will be on any day throughout the life of your notes, what the closing level of any underlier will be on any coupon observation date or call observation date, as the case may be, and what the final underlier level of the lesser performing underlier will be on the determination date. The underliers have been highly volatile in the past — meaning that the underlier levels have changed substantially in relatively short periods — and their performance cannot be predicted for any future period.

The information in the following examples reflects hypothetical rates of return on the offered notes assuming that they are purchased on the original issue date at the face amount and held to a call payment date or the stated maturity date. If you sell your notes in a secondary market prior to a call payment date or the stated maturity date, as the case may be, your return will depend upon the market value of your notes at the time of sale, which may be affected by a number of factors that are not reflected in the examples below such as interest rates, the volatility of the underliers, the creditworthiness of GS Finance Corp., as issuer, and the creditworthiness of The Goldman Sachs Group, Inc., as guarantor. In addition, the estimated value of your notes at the time the terms of your notes are set on the trade date (as determined by reference to pricing models used by GS&Co.) is less than the original issue price of your notes. For more information on the estimated value of your notes, see “Additional Risk Factors Specific to Your Notes — The Estimated Value of Your Notes At the Time the Terms of Your Notes Are Set On the Trade Date (as Determined By Reference to Pricing Models Used By GS&Co.) Is Less Than the Original Issue Price Of Your Notes” on page PS-11 of this pricing supplement. The information in the examples also reflects the key terms and assumptions in the box below.

## Key Terms and Assumptions

Face amount           \$1,000

Coupon               \$15

Coupon trigger level with respect to each underlier, 60% of its initial underlier level

Trigger buffer level with respect to each underlier, 60% of its initial underlier level

The notes are not automatically called, unless otherwise indicated below

Neither a market disruption event nor a non-trading day occurs on any originally scheduled coupon observation date or call observation date or the originally scheduled determination date

No change in or affecting any of the underlier stocks or the method by which the applicable underlier sponsor calculates any underlier

Notes purchased on original issue date at the face amount and held to a call payment date or the stated maturity date

Moreover, we have not yet set the initial underlier levels that will serve as the baseline for determining the coupon payable on each coupon payment date, if any, if the notes will be automatically called, the underlier returns and the amount that we will pay on your notes, if any, on the call payment date or at maturity. We will not do so until the trade date. As a result, the actual initial underlier levels may differ substantially from the underlier levels prior to the trade date. They may also differ substantially from the underlier levels at the time you purchase your notes.

For these reasons, the actual performance of the underliers over the life of your notes, the actual underlier levels on any call observation date or coupon observation date, as well as the coupon payable, if any, on each coupon payment date, may bear little relation to the hypothetical examples shown below or to the historical underlier levels shown elsewhere in this pricing supplement. For information about the underlier levels during recent periods, see “The Underliers — Historical Closing Levels of the Underliers” on page PS-17. Before investing in the notes, you should consult publicly available information to determine the underlier levels between the date of this pricing supplement

and the date of your purchase of the notes.

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

## Hypothetical Coupon Payments

The examples below show hypothetical performances of each underlier as well as the hypothetical coupons, if any, that we would pay on each coupon payment date with respect to each \$1,000 face amount of the notes if the hypothetical closing level of each underlier on the applicable coupon observation date was the percentage of its initial underlier level shown.

## Scenario 1

Hypothetical Coupon Observation Date	Hypothetical Closing Level of the EURO STOXX 50® Index (as Percentage of Initial Underlier Level)	Hypothetical Closing Level of the S&P 500® Index (as Percentage of Initial Underlier Level)	Hypothetical Coupon
First	110%	50%	\$0
Second	40%	55%	\$0
Third	80%	85%	\$15
Fourth	55%	70%	\$0
Fifth	45%	90%	\$0
Sixth	90%	85%	\$15
Seventh	55%	65%	\$0
Eighth	50%	115%	\$0
Ninth	45%	70%	\$0
Tenth	50%	90%	\$0
Eleventh	55%	80%	\$0
Twelfth-Fortieth	75%	55%	\$0
Total Hypothetical Coupons			\$30

In Scenario 1, the hypothetical closing level of each underlier increases and decreases by varying amounts on each hypothetical coupon observation date. Because the hypothetical closing level of each underlier on the third and sixth hypothetical coupon observation dates is greater than or equal to its hypothetical coupon trigger level, the total of the hypothetical coupons in Scenario 1 is \$30. Because the hypothetical closing level of at least one underlier on all other hypothetical coupon observation dates is less than its hypothetical coupon trigger level, no further coupons will be paid, including at maturity.

## Scenario 2

Hypothetical Coupon Observation Date	Hypothetical Closing Level of the EURO STOXX 50® Index (as Percentage of Initial Underlier Level)	Hypothetical Closing Level of the S&P 500® Index (as Percentage of Initial Underlier Level)	Hypothetical Coupon
First	110%	30%	\$0
Second	40%	20%	\$0
Third	35%	25%	\$0
Fourth	45%	50%	\$0
Fifth	70%	45%	\$0
Sixth	40%	70%	\$0
Seventh	55%	45%	\$0
Eighth	50%	115%	\$0
Ninth	55%	70%	\$0
Tenth	40%	90%	\$0