

GOLDMAN SACHS GROUP INC

Form 424B2

November 01, 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 October 31, 2018.

GS Finance Corp.

\$

Leveraged Buffered Basket-Linked Notes due

guaranteed by

The Goldman Sachs Group, Inc.

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The notes will not bear interest. The amount that you will be paid on your notes on the stated maturity date (expected to be November 5, 2021) is based on the performance of a weighted basket comprised of the S&P 500<sup>®</sup> Index (40% weighting), the EURO STOXX 50<sup>®</sup> Index (28% weighting), the NASDAQ-100 Index<sup>®</sup> (25% weighting) and the iShares<sup>®</sup> MSCI Emerging Markets ETF (7% weighting) as measured from the trade date (expected to be November 2, 2018) to and including the determination date (expected to be November 2, 2021).

The return on your notes is linked in part to the performance of the iShares<sup>®</sup> MSCI Emerging Markets ETF (ETF), and not to that of the MSCI Emerging Markets Index (underlying index) on which the ETF is based. The ETF follows a strategy of "representative sampling," which means the ETF's holdings are not the same as those of the underlying index. The performance of the ETF may significantly diverge from that of its underlying index.

The initial basket level is 100 and the final basket level will equal the sum of the products, as calculated for each basket underlier, of: (i) the final underlier level divided by the initial underlier level (set on the trade date) multiplied by (ii) the applicable initial weighted value for each basket underlier. If the final basket level on the determination date is greater than the initial basket level, the return on your notes will be positive and will equal 1.1 times the basket return. If the final basket level declines by up to 20% from the initial basket level, you will receive the face amount of your notes. If the final basket level declines by more than 20% from the initial basket level, the return on your notes will be negative and will equal the basket return plus 20%. You could lose a significant portion of the face amount of your notes.

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

if the basket return is positive (the final basket level is greater than the initial basket level), the sum of (i) \$1,000 plus (ii) the product of (a) \$1,000 times (b) 1.1 times (c) the basket return;

if the basket return is zero or negative but not below -20% (the final basket level is equal to or less than the initial basket level but not by more than 20%), \$1,000; or

if the basket return is negative and is below -20% (the final basket level is less than the initial basket level by more than 20%), the sum of (i) \$1,000 plus (ii) the product of (a) the sum of the basket return plus 20% times (b) \$1,000.

You will receive less than the face amount of your notes.

Declines in one basket underlier may offset increases in the other basket underliers. Due to the unequal weighting of each basket underlier, the performance of the S&P 500<sup>®</sup> Index will have a significantly larger impact on your return on the notes than the performance of the EURO STOXX 50<sup>®</sup> Index, NASDAQ-100 Index<sup>®</sup> and the iShares<sup>®</sup> MSCI Emerging Markets ETF.

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-13.

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 \$950 and \$980 per \$1,000 face amount. For a discussion of the estimated value and the price at which Goldman Sachs & Co. LLC would initially buy or sell your notes, if it makes a market in the notes, see the following page.

Original issue date: expected to be November 7, 2018 Original issue price: 100% of the face amount\*

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

\*See “Summary Information — Key Terms — Supplemental plan of distribution; conflicts of interest” on page PS-5 for additional information regarding the fees comprising the underwriting discount.

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.

## Table of Contents

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 \$950 and \$980 per \$1,000 face amount, which is less than the original issue price. The value of your notes at any time will reflect many factors and cannot be predicted; however, the price (not including GS&Co.'s customary bid and ask spreads) at which GS&Co. would initially buy or sell notes (if it makes a market, which it is not obligated to do) and the value that GS&Co. will initially use for account statements and otherwise is equal to approximately the estimated value of your notes at the time of pricing, plus an additional amount (initially equal to \$      per \$1,000 face amount).

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

### About Your Prospectus

The notes are part of the Medium-Term Notes, Series E program of GS Finance Corp. and are fully and unconditionally guaranteed by The Goldman Sachs Group, Inc. This prospectus includes this pricing supplement and the accompanying documents listed below. This pricing supplement constitutes a supplement to the documents listed below and should be read in conjunction with such documents:

Product supplement no. 1,738 dated July 10, 2017

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

Prospectus supplement dated July 10, 2017

Prospectus dated July 10, 2017

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

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Table of Contents

SUMMARY INFORMATION

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. Also, references to the “accompanying prospectus” mean the accompanying prospectus, dated July 10, 2017, references to the “accompanying prospectus supplement” mean the accompanying prospectus supplement, dated July 10, 2017, for Medium-Term Notes, Series E, references to the “accompanying general terms supplement no. 1,734” mean the accompanying general terms supplement no. 1,734, dated July 10, 2017, and references to the “accompanying product supplement no. 1,738” mean the accompanying product supplement no. 1,738, dated July 10, 2017, in each case of GS Finance Corp. and The Goldman Sachs Group, Inc. 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.

This section is meant as a summary and should be read in conjunction with the section entitled “General Terms of the Underlier-Linked Notes” on page S-35 of the accompanying product supplement no. 1,738 and “Supplemental Terms of the Notes” on page S-16 of the accompanying general terms supplement no. 1,734. Please note that certain features, as noted below, described in the accompanying product supplement no. 1,738 and general terms supplement no. 1,734 are not applicable to the notes. This pricing supplement supersedes any conflicting provisions of the accompanying product supplement no. 1,738 or the accompanying general terms supplement no. 1,734.

Key Terms

Issuer: GS Finance Corp.

Guarantor: The Goldman Sachs Group, Inc.

Basket underliers: the S&P 500<sup>®</sup> Index (Bloomberg symbol, “SPX Index”), as published by S&P Dow Jones Indices LLC; the EURO STOXX 50<sup>®</sup> Index (Bloomberg symbol, “SX5E Index”), as sponsored and maintained by STOXX Limited; the NASDAQ-100 Index<sup>®</sup> (Bloomberg symbol, “NDX Index”), as published by Nasdaq, Inc.; and the iShares<sup>®</sup> MSCI Emerging Markets ETF (Bloomberg symbol, “EEM UP Equity”); see “The Basket and the Basket Underliers” on page PS-22

Basket indices: the S&P 500<sup>®</sup> Index, the EURO STOXX 50<sup>®</sup> Index and the NASDAQ-100 Index<sup>®</sup>

Basket fund: the iShares<sup>®</sup> MSCI Emerging Markets ETF

Underlying index of the basket fund: the MSCI Emerging Markets Index

Specified currency: U.S. dollars (“\$”)

Terms to be specified in accordance with the accompanying product supplement no. 1,738:

- type of notes: notes linked to basket of underliers
- exchange rates: not applicable
- buffer level: yes, as described below
- cap level: not applicable
- averaging dates: not applicable

PS-2

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Table of Contents

·interest: not applicable

·redemption right or price dependent redemption right: not applicable

Face amount: each note will have a face amount of \$1,000; \$ in the aggregate for all the offered notes; the aggregate face amount of the offered notes may be increased if the issuer, at its sole option, decides to sell an additional amount of the offered notes on a date subsequent to the date of this pricing supplement

Purchase at amount other than face amount: the amount we will pay you at the stated maturity date for your notes will not be adjusted based on the issue price you pay for your notes, so if you acquire notes at a premium (or discount) to face amount and hold them to the stated maturity date, it could affect your investment in a number of ways. The return on your investment in such notes will be lower (or higher) than it would have been had you purchased the notes at face amount. Also, the stated buffer level would not offer the same measure of protection to your investment as would be the case if you had purchased the notes at face amount. See “Additional Risk Factors Specific to Your Notes — If You Purchase Your Notes at a Premium to Face Amount, the Return on Your Investment Will Be Lower Than the Return on Notes Purchased at Face Amount and the Impact of Certain Key Terms of the Notes Will Be Negatively Affected” on page PS-16 of this pricing supplement

Supplemental discussion of federal income tax consequences: you will be obligated pursuant to the terms of the notes — in the absence of a change in law, an administrative determination or a judicial ruling to the contrary — to characterize each note for all tax purposes as a pre-paid derivative contract in respect of the basket underliers, as described under “Supplemental Discussion of Federal Income Tax Consequences” on page S-41 of the accompanying product supplement no. 1,738. Pursuant to this approach, it is the opinion of Sidley Austin LLP that upon the sale, exchange or maturity of your notes, it would be reasonable for you to recognize capital gain or loss equal to the difference, if any, between the amount of cash you receive at such time and your tax basis in your notes. Pursuant to Treasury regulations, Foreign Account Tax Compliance Act (FATCA) withholding (as described in “United States Taxation—Taxation of Debt Securities—Foreign Account Tax Compliance Act (FATCA) Withholding” in the accompanying prospectus) will generally apply to obligations that are issued on or after July 1, 2014; therefore, the notes will generally be subject to FATCA withholding. However, according to published guidance, the withholding tax described above will not apply to payments of gross proceeds from the sale, exchange or other disposition of the notes made before January 1, 2019.

Cash settlement amount: for each \$1,000 face amount of your notes, we will pay you on the stated maturity date an amount in cash equal to:

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

if the final basket level is equal to or less than the initial basket level but greater than or equal to the buffer level, \$1,000; or

if the final basket level is less than the buffer level, the sum of (1) \$1,000 plus (2) the product of (i) \$1,000 times (ii) the buffer rate times (iii) the sum of the basket return plus the buffer amount

Initial basket level: 100

Initial weighted value: the initial weighted value for each of the basket underliers is expected to equal the product of the initial weight of such basket underlier times the initial basket level. The initial weight of each basket underlier is shown in the table below:

Basket Underlier	Initial Weight in Basket
S&P 500® Index	40%
EURO STOXX 50® Index	28%
NASDAQ-100 Index®	25%
iShares® MSCI Emerging Markets ETF	7%

Initial S&P 500® Index level (to be set on the trade date):

Table of Contents

Initial EURO STOXX 50<sup>®</sup> Index level (to be set on the trade date):

Initial NASDAQ-100 Index<sup>®</sup> level (to be set on the trade date):

Initial iShares<sup>®</sup> MSCI Emerging Markets ETF level (to be set on the trade date):

Final S&P 500<sup>®</sup> Index level: the closing level of such basket underlier on the determination date, except in the limited circumstances described under “Supplemental Terms of the Notes - Consequences of a Market Disruption Event or a Non-Trading Day” on page S-23 of the accompanying general terms supplement no. 1,734 and subject to adjustment as provided under “Supplemental Terms of the Notes - Discontinuance or Modification of an Underlier” on page S-27 of the accompanying general terms supplement no. 1,734

Final EURO STOXX 50<sup>®</sup> Index level: the closing level of such basket underlier on the determination date, except in the limited circumstances described under “Supplemental Terms of the Notes — Consequences of a Market Disruption Event or a Non-Trading Day” on page S-23 of the accompanying general terms supplement no. 1,734 and subject to adjustment as provided under “Supplemental Terms of the Notes — Discontinuance or Modification of an Underlier” on page S-27 of the accompanying general terms supplement no. 1,734

Final NASDAQ-100 Index<sup>®</sup> level: the closing level of such basket underlier on the determination date, except in the limited circumstances described under “Supplemental Terms of the Notes - Consequences of a Market Disruption Event or a Non-Trading Day” on page S-23 of the accompanying general terms supplement no. 1,734 and subject to adjustment as provided under “Supplemental Terms of the Notes - Discontinuance or Modification of an Underlier” on page S-27 of the accompanying general terms supplement no. 1,734

Final iShares<sup>®</sup> MSCI Emerging Markets ETF level: the closing level of such basket underlier on the determination date, except in the limited circumstances described under “Supplemental Terms of the Notes — Consequences of a Market Disruption Event or a Non-Trading Day” on page S-23 of the accompanying general terms supplement no. 1,734, subject to anti-dilution adjustments as described under “Supplemental Terms of the Notes — Anti-dilution Adjustments for Exchange-Traded Funds” on page S-28 of the accompanying general terms supplement no. 1,734 and subject to adjustment as provided under “Supplemental Terms of the Notes — Discontinuance or Modification of an Underlier” on page S-27 of the accompanying general terms supplement no. 1,734

Final basket level: the sum of the following: (1) the final S&P 500<sup>®</sup> Index level divided by the initial S&P 500<sup>®</sup> Index level, multiplied by the initial weighted value of the S&P 500<sup>®</sup> Index plus (2) the final EURO STOXX 50<sup>®</sup> Index level divided by the initial EURO STOXX 50<sup>®</sup> Index level, multiplied by the initial weighted value of the EURO STOXX 50<sup>®</sup> Index plus (3) the final NASDAQ-100 Index<sup>®</sup> level divided by the initial NASDAQ-100 Index<sup>®</sup> level, multiplied by the initial weighted value of the NASDAQ-100 Index<sup>®</sup> plus (4) the final iShares<sup>®</sup> MSCI Emerging Markets ETF level divided by the initial iShares<sup>®</sup> MSCI Emerging Markets ETF level, multiplied by the initial weighted value of the iShares<sup>®</sup> MSCI Emerging Markets ETF

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

Upside participation rate: 110%

Buffer level: 80% of the initial basket level

Buffer amount: 20%

Buffer rate: 100%

Trade date: expected to be November 2, 2018

Original issue date (settlement date) (to be set on the trade date): expected to be November 7, 2018

Stated maturity date (to be set on the trade date): expected to be November 5, 2021, subject to adjustment as described under “Supplemental Terms of the Notes — Stated Maturity Date” on page S-16 of the accompanying general terms supplement no. 1,734

Table of Contents

Determination date (to be set on the trade date): expected to be November 2, 2021, subject to adjustment as described under “Supplemental Terms of the Notes — Determination Date” on page S-17 of the accompanying general terms supplement no. 1,734

No interest: the offered notes will not bear interest

No listing: the offered notes will not be listed on any securities exchange or interdealer quotation system

No redemption: the offered notes will not be subject to redemption right or price dependent redemption right

Closing level: as described under “Supplemental Terms of the Notes — Special Calculation Provisions — Closing Level” on page S-31 of the accompanying general terms supplement no. 1,734.

Business day: as described under “Supplemental Terms of the Notes — Special Calculation Provisions — Business Day” on page S-30 of the accompanying general terms supplement no. 1,734

Trading day: as described under “Supplemental Terms of the Notes <sup>3</sup>/<sub>4</sub> Special Calculation Provisions <sup>3</sup>/<sub>4</sub> Trading Day” on page S-31 of the accompanying general terms supplement no. 1,734

Use of proceeds and hedging: as described under “Use of Proceeds” and “Hedging” on page S-40 of the accompanying product supplement no. 1,738

ERISA: as described under “Employee Retirement Income Security Act” on page S-48 of the accompanying product supplement no. 1,738

Supplemental plan of distribution; conflicts of interest: as described under “Supplemental Plan of Distribution” on page S-49 of the accompanying product supplement no. 1,738 and “Plan of Distribution – Conflicts of Interest” on page 94 of the accompanying prospectus; GS Finance Corp. estimates that its share of the total offering expenses, excluding underwriting discounts and commissions, will be approximately \$ .

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

We expect to deliver the notes against payment therefor in New York, New York on November 7, 2018. Under Rule 15c6-1 of the Securities Exchange Act of 1934, trades in the secondary market generally are required to settle in two business days, unless the parties to any such trade expressly agree otherwise. Accordingly, purchasers who wish to trade notes on any date prior to two business days before delivery will be required to specify alternative settlement arrangements to prevent a failed settlement.

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

Calculation agent: GS&Co.

CUSIP no.: 40056EEN4

ISIN no.: US40056EEN40

FDIC: 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

Table of Contents

## 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 the impact that the various hypothetical basket closing levels or hypothetical closing levels of the basket underliers, as applicable, on the determination date could have on the cash settlement amount at maturity assuming all other variables remain constant.

The examples below are based on a range of final basket levels and closing levels of the basket underliers that are entirely hypothetical; no one can predict what the level of the basket will be on any day throughout the life of your notes, and no one can predict what the final basket level will be on the determination date. The basket underliers have been highly volatile in the past — meaning that the levels of the basket underliers have changed considerably in relatively short periods — and their performances cannot be predicted for any future period.

The information in the following examples reflects hypothetical rates of return on the offered notes assuming that they are purchased on the original issue date at the face amount and held to the stated maturity date. If you sell your notes in a secondary market prior to the stated maturity date, your return will depend upon the market value of your notes at the time of sale, which may be affected by a number of factors that are not reflected in the examples below such as interest rates, the volatility of the basket 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-13 of this pricing supplement. The information in the examples also reflects the key terms and assumptions in the box below.

## Key Terms and Assumptions

Face amount	\$1,000
Upside participation rate	110%
Initial basket level	100
Buffer level	80% of the initial basket level
Buffer rate	100%
Buffer amount	20%

Neither a market disruption event nor a non-trading day occurs on the originally scheduled determination date

No change in or affecting (i) any of the underlier stocks, (ii) the methods by which any underlier sponsor calculates the basket index or the underlying index for a basket fund or (iii) the policies of the investment advisor of either basket fund

Notes purchased on original issue date at the face amount and held to the stated maturity date

Moreover, we have not yet set the initial S&P 500<sup>®</sup> Index level, the initial EURO STOXX 50<sup>®</sup> Index level, the initial NASDAQ-100 Index<sup>®</sup> level, or the initial iShares<sup>®</sup> MSCI Emerging Markets ETF level that will serve as the baselines for determining the basket return and the amount that we will pay on your notes at maturity. We will not do so until the trade date. As a result, the actual initial S&P 500<sup>®</sup> Index level, the actual EURO STOXX 50<sup>®</sup> Index level, the actual NASDAQ-100 Index<sup>®</sup> level and the actual initial iShares<sup>®</sup> MSCI Emerging Markets ETF level may differ substantially from the current level of such basket underlier prior to



PS-6

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Table of Contents

the trade date. They may also differ substantially from the level of such basket underlier at the time you purchase your notes.

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

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

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

Hypothetical Final Basket Level	Hypothetical Cash Settlement Amount
(as Percentage of Initial Basket Level)	(as Percentage of Face Amount)
200.000%	210.000%
175.000%	182.500%
150.000%	155.000%
125.000%	127.500%
100.000%	100.000%
95.000%	100.000%
85.000%	100.000%
80.000%	100.000%
60.000%	80.000%
50.000%	70.000%
25.000%	45.000%
0.000%	20.000%

If, for example, the final basket level were determined to be 25.000% of the initial basket level, the cash settlement amount that we would deliver on your notes at maturity would be 45.000% of the face amount of your notes, as shown in the table above. As a result, if you purchased your notes on the original issue date at the face amount and held them to the stated maturity date, you would lose 55.000% of your investment (if you purchased your notes at a premium to face amount you would lose a correspondingly higher percentage of your investment). If the final basket level were determined to be 0.000% of the initial basket level, you would lose 80.000% of your investment in the notes.

The following chart also shows a graphical illustration of the hypothetical cash settlement amounts (expressed as a percentage of the face amount of your notes) that we would pay on your notes on the stated maturity date, if the final basket level (expressed as a percentage of the initial basket level) were any of the hypothetical levels shown on the horizontal axis. The chart shows that any hypothetical final basket level (expressed as a percentage of the initial basket level) of less than 80.000% (the section left of the 80.000% marker on the horizontal axis) would result in a hypothetical cash settlement amount of less than

PS-7

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Table of Contents

100.000% of the face amount of your notes (the section below the 100.000% marker on the vertical axis) and, accordingly, in a loss of principal to the holder of the notes.

The following examples illustrate the hypothetical cash settlement amount at maturity for each note based on hypothetical final levels of the basket underliers, calculated based on the key terms and assumptions above. The levels in Column A represent hypothetical initial levels for each basket underlier, and the levels in Column B represent hypothetical final levels for each basket underlier. The percentages in Column C represent hypothetical final levels for each basket underlier in Column B expressed as percentages of the corresponding hypothetical initial levels in Column A. The amounts in Column D represent the applicable initial weighted value for each basket underlier, and the amounts in Column E represent the products of the percentages in Column C times the corresponding amounts in Column D. The final basket level for each example is shown beneath each example, and will equal the sum of the products shown in Column E. The basket return for each example is shown beneath the final basket level for such example, and will equal the quotient of (i) the final basket level for such example minus the initial basket level divided by (ii) the initial basket level, expressed as a percentage. The values below have been rounded for ease of analysis.

PS-8

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Table of Contents

Example 1: The final basket level is greater than the initial basket level.

	Column A	Column B	Column C	Column D	Column E
Basket Underlier	Hypothetical Initial Level	Hypothetical Final Level	Column B / Column A	Initial Weighted Value	Column C x Column D
S&P 500® Index	2,700.00	2,835.00	105.00%	40.00	42.00
EURO STOXX 50® Index	3,100.00	3,255.00	105.00%	28.00	29.40
NASDAQ-100 Index®	6,800.000	7,140.000	105.00%	25.00	26.25
iShares® MSCI Emerging Markets ETF	\$40.00	\$42.00	105.00%	7.00	7.35

Final Basket Level: 105.00

Basket Return: 5.00%

In this example, all of the hypothetical final levels for the basket underliers are greater than the applicable hypothetical initial levels, which results in the hypothetical final basket level being greater than the initial basket level of 100.00.

Since the hypothetical final basket level was determined to be 105.00, the hypothetical cash settlement amount for each \$1,000 face amount of your notes will equal:

Cash settlement amount = \$1,000 + (\$1,000 × 110% × 5%) = \$1,055

Example 2: The final basket level is less than the initial basket level, but greater than the buffer level. The cash settlement amount equals the \$1,000 face amount.

	Column A	Column B	Column C	Column D	Column E
Basket Underlier	Hypothetical Initial Level	Hypothetical Final Level	Column B / Column A	Initial Weighted Value	Column C x Column D
S&P 500® Index	2,700.00	2,565.00	95.00%	40.00	38.00
EURO STOXX 50® Index	3,100.00	2,945.00	95.00%	28.00	26.60
NASDAQ-100 Index®	6,800.000	6,460.000	95.00%	25.00	23.75
iShares® MSCI Emerging Markets ETF	\$40.00	\$38.00	95.00%	7.00	6.65

Final Basket Level: 95.00

Basket Return: -5.00%

In this example, all of the hypothetical final levels for the basket underliers are less than the applicable hypothetical initial levels, which results in the hypothetical final basket level being less than the initial basket level of 100.00.

Since the hypothetical final basket level of 95.00 is greater than the buffer level of 80% of the initial basket level but less than the initial basket level of 100, the hypothetical cash settlement amount for each \$1,000 face amount of your notes will equal the face amount of the note, or \$1,000.

Table of Contents

Example 3: The final basket level is less than the buffer level. The cash settlement amount is less than the \$1,000 face amount.

	Column A	Column B	Column C	Column D	Column E
Basket Underlier	Hypothetical Initial Level	Hypothetical Final Level	Column B / Column A	Initial Weighted Value	Column C x Column D
S&P 500 <sup>®</sup> Index	2,700.00	540.00	20.00%	40.00	8.00
EURO STOXX 50 <sup>®</sup> Index	3,100.00	620.00	20.00%	28.00	5.60
NASDAQ-100 Index <sup>®</sup>	6,800.000	1,360.000	20.00%	25.00	5.00
iShares <sup>®</sup> MSCI Emerging Markets ETF	\$40.00	\$80.00	200.00%	7.00	14.00

Final Basket Level: 32.60

Basket Return: -67.40%

In this example, the hypothetical final levels of the S&P 500<sup>®</sup> Index, the EURO STOXX 50<sup>®</sup> Index and the NASDAQ-100 Index<sup>®</sup> are less than their applicable hypothetical initial levels, while the hypothetical final level of the iShares<sup>®</sup> MSCI Emerging Markets ETF is greater than its hypothetical initial level.

Because the basket is unequally weighted, an increase in the lower weighted basket underlier will be offset by decreases in the more heavily weighted basket underliers. In this example, large declines in the S&P 500<sup>®</sup> Index, the EURO STOXX 50<sup>®</sup> Index and the NASDAQ-100 Index<sup>®</sup> result in the hypothetical final basket level being less than the buffer level of 80% of the initial basket level even though the iShares<sup>®</sup> MSCI Emerging Markets ETF increased.

Since the hypothetical final basket level of 32.60 is less than the buffer level of 80% of the initial basket level, the hypothetical cash settlement amount for each \$1,000 face amount of your notes will equal:

$$\text{Cash settlement amount} = \$1,000 + (\$1,000 \times 100\% \times (-67.40\% + 20\%)) = \$526$$

Example 4: The final basket level is less than the buffer level. The cash settlement amount is less than the \$1,000 face amount.

	Column A	Column B	Column C	Column D	Column E
Basket Underlier	Hypothetical Initial Level	Hypothetical Final Level	Column B / Column A	Initial Weighted Value	Column C x Column D
S&P 500 <sup>®</sup> Index	2,700.00	1,350.00	50.00%	40.00	20.00
EURO STOXX 50 <sup>®</sup> Index	3,100.00	1,550.00	50.00%	28.00	14.00
NASDAQ-100 Index <sup>®</sup>	6,800.000	3,400.000	50.00%	25.00	12.50
iShares <sup>®</sup> MSCI Emerging Markets ETF	\$40.00	\$20.00	50.00%	7.00	3.50

Final Basket Level: 50.00

Basket Return: -50.00%

In this example, the hypothetical final levels for all of the basket underliers are less than the applicable hypothetical initial levels, which results in the hypothetical final basket level being less than the initial basket level of 100.00.

Since the hypothetical final basket level of 50.00 is less than the buffer level of 80% of the initial basket level, the hypothetical cash settlement amount for each \$1,000 face amount of your notes will equal:

$$\text{Cash settlement amount} = \$1,000 + (\$1,000 \times 100\% \times (-50\% + 20\%)) = \$700$$

PS-10

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Table of Contents

The cash settlement amounts shown above are entirely hypothetical; they are based on levels of the basket underliers that may not be achieved on the determination date and on assumptions that may prove to be erroneous. The actual market value of your notes on the stated maturity date or at any other time, including any time you may wish to sell your notes, may bear little relation to the hypothetical cash settlement amounts shown above, and these amounts should not be viewed as an indication of the financial return on an investment in the offered notes. The hypothetical cash settlement amounts on notes held to the stated maturity date in the examples above assume you purchased your notes at their face amount and have not been adjusted to reflect the actual issue price you pay for your notes. The return on your investment (whether positive or negative) in your notes will be affected by the amount you pay for your notes. If you purchase your notes for a price other than the face amount, the return on your investment will differ from, and may be significantly lower than, the hypothetical returns suggested by the above examples. Please read “Additional Risk Factors Specific to the Underlier-Linked Notes — The Market Value of Your Notes May Be Influenced by Many Unpredictable Factors” on page S-32 of the accompanying product supplement no. 1,738.

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

PS-11

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Table of Contents

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

PS-12

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Table of Contents

ADDITIONAL RISK FACTORS SPECIFIC TO YOUR NOTES

An investment in your notes is subject to the risks described below, as well as the risks and considerations described in the accompanying prospectus, in the accompanying prospectus supplement, under “Additional Risk Factors Specific to the Notes” in the accompanying general terms supplement no. 1,734 and under “Additional Risk Factors Specific to the Underlier-Linked Notes” in the accompanying product supplement no. 1,738. You should carefully review these risks and considerations as well as the terms of the notes described herein and in the accompanying prospectus, the accompanying prospectus supplement, the accompanying general terms supplement no. 1,734 and the accompanying product supplement no. 1,738. Your notes are a riskier investment than ordinary debt securities. Also, your notes are not equivalent to investing directly in the basket underlier stocks, i.e., with respect to a basket underlier to which your notes are linked, the stocks comprising such basket underlier. You should carefully consider whether the offered notes are suited to your particular circumstances.

The Estimated Value of Your Notes At the Time the Terms of Your Notes Are Set On the Trade Date (as Determined By Reference to Pricing Models Used By GS&Co.) Is Less Than the Original Issue Price Of Your Notes

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

In estimating the value of your notes as of the time the terms of your notes are set on the trade date, as disclosed above under “Estimated Value of Your Notes”, GS&Co.’s pricing models consider certain variables, including principally our credit spreads, interest rates (forecasted, current and historical rates), volatility, price-sensitivity analysis and the time to maturity of the notes. These pricing models are proprietary and rely in part on certain assumptions about future events, which may prove to be incorrect. As a result, the actual value you would receive if you sold your notes in the secondary market, if any, to others may differ, perhaps materially, from the estimated value of your notes determined by reference to our models due to, among other things, any differences in pricing models or assumptions used by others. See “Additional Risk Factors Specific to the Underlier-Linked Notes — The Market Value of Your Notes May Be Influenced by Many Unpredictable Factors” on page S-32 of the accompanying product supplement no. 1,738.

The difference between the estimated value of your notes as of the time the terms of your notes are set on the trade date and the original issue price is a result of certain factors, including principally the underwriting discount and commissions, the expenses incurred in creating, documenting and marketing the notes, and an estimate of the difference between the amounts we pay to GS&Co. and the amounts GS&Co. pays to us in connection with your notes. We pay to GS&Co. amounts based on what we would pay to holders of a non-structured note with a similar maturity. In return for such payment, GS&Co. pays to us the amounts we owe under your notes. In addition to the factors discussed above, the value and quoted price of your notes at any time will reflect many factors and cannot be predicted. If GS&Co. makes a market in the notes, the price quoted by GS&Co. would reflect any changes in market conditions and other relevant factors, including any

PS-13

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## Table of Contents

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

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

There is no assurance that GS&Co. or any other party will be willing to purchase your notes at any price and, in this regard, GS&Co. is not obligated to make a market in the notes. See "Additional Risk Factors Specific to the Underlier-Linked Notes — Your Notes May Not Have an Active Trading Market" on page S-31 of the accompanying product supplement no. 1,738.

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

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

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

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

### You May Lose a Substantial Portion of Your Investment in the Notes

You can lose a substantial portion of your investment in the notes. The cash payment on your notes on the stated maturity date will be based on the performance of a weighted basket comprised of the S&P 500<sup>®</sup> Index, the EURO STOXX 50<sup>®</sup> Index, the NASDAQ-100 Index<sup>®</sup> and the iShares<sup>®</sup> MSCI Emerging Markets ETF as measured from the initial basket level of 100 to the final basket level on the determination date. If the final basket level for your notes is less than the buffer level, you will have a loss for each \$1,000 of the face amount of your notes equal to the product of (i) the buffer rate times (ii) the sum of the basket return plus the buffer amount times (iii) \$1,000. Thus, you may lose a substantial portion of your investment in the notes, which would include any premium to face amount you paid when you purchased the notes.

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

### Your Notes Do Not Bear Interest

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

interest at a prevailing market rate.

PS-14

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Table of Contents

**The Lower Performance of One Basket Underlier May Offset an Increase in the Other Basket Underliers**

Declines in the level of one basket underlier may offset increases in the levels of the other basket underliers. As a result, any return on the basket — and thus on your notes — may be reduced or eliminated, which will have the effect of reducing the amount payable in respect of your notes at maturity. In addition, because the basket underliers are not equally weighted, increases in the lower weighted basket underliers may be offset by even small decreases in the more heavily weighted basket underliers. In particular, due to the weighting of the S&P 500<sup>®</sup> Index in the basket relative to the other basket underliers, any decrease in the S&P 500<sup>®</sup> Index will have a significantly larger impact on your return on the notes than any proportional increase in the other basket underliers.

**The Return on Your Notes Will Not Reflect Any Dividends Paid on the Basket Underliers or the Basket Underlier Stocks, as Applicable**

The underlier sponsors of the basket indices calculate the value of applicable basket index by reference to the prices of its basket underlier stocks, without taking account of the value of dividends paid on those stocks. Therefore, the return on your notes will not reflect the return you would realize if you actually owned the basket underlier stocks and received the dividends paid on those stocks. In addition, the return on your notes will not reflect the return you would realize if you actually owned the basket fund and received the dividends paid on the shares of the basket fund. You will not receive any dividends that may be paid on any of the basket underlier stocks by the basket underlier stock issuers or on the shares of the basket fund. See “— You Have No Shareholder Rights or Rights to Receive Any Shares of a Basket Underlier or Any Basket Underlier Stocks” below for additional information.

**You Have No Shareholder Rights or Rights to Receive Any Shares of a Basket Underlier or Any Basket Underlier Stocks**

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

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

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

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

The cash settlement amount will not be adjusted based on the issue price you pay for the notes. If you purchase notes at a price that differs from the face amount of the notes, then the return on your investment in such notes held to the stated maturity date will differ from, and may be substantially less than, the return on notes purchased at face amount. If you purchase your notes at a premium to face amount and hold them to the stated maturity date the return on your investment in the notes will be lower than it would have been had you purchased the notes at face amount or a discount to face amount. In addition, the impact of the buffer level on the return on your investment will depend upon the price you pay for your notes relative to the face amount. For example, if you purchase your notes at a premium to face amount, the buffer level, while still providing some protection for the return on the notes, will allow a greater percentage decrease in your investment in the notes than would have been the case for notes purchased at face amount or a discount to face amount.

### Table of Contents

The Policies of an Underlier Sponsor and Changes that Affect a Basket Index or An Underlying Index or the Underlier Stocks Comprising a Basket Underlier or an Underlying Index, Could Affect the Cash Settlement Amount on the Stated Maturity Date and the Market Value of Your Notes

The policies of an underlier sponsor concerning the calculation of the level of a basket index and each underlying index, additions, deletions or substitutions of the underlier stocks comprising such basket index or the underlying index, and the manner in which changes affecting the underlier stocks or their issuers, such as stock dividends, reorganizations or mergers, are reflected in the level of a basket index or the underlying index, could affect the level of the applicable basket index or the underlying index and, therefore, the amount payable on your notes on the stated maturity date and the market value of your notes before that date. The amount payable on your notes and their market value could also be affected if an underlier sponsor changes these policies, for example, by changing the manner in which it calculates the level of the applicable basket index or the underlying index, or if any underlier sponsor discontinues or suspends calculation or publication of the level of the applicable basket index or the underlying index, in which case it may become difficult to determine the market value of your notes. If events such as these occur on the determination date, the calculation agent — which initially will be GS&Co., our affiliate — may determine the closing level of the applicable basket index or the underlying index on the determination date — and thus the amount payable on the stated maturity date — in a manner it considers appropriate, in its sole discretion. We describe the discretion that the calculation agent will have in determining the levels of the basket underliers on the determination date and the amount payable on your notes more fully under “Supplemental Terms of the Notes — Discontinuance or Modification of a Basket Underlier” on page S-27 and “— Role of Calculation Agent” on page S-28 of the accompanying general terms supplement no. 1,734.

The Policies of the Investment Advisor of the Basket Fund, Blackrock Fund Advisors, and the Sponsor of the Underlying Index of the Basket Fund, MSCI, Could Affect the Amount Payable on Your Notes and Their Market Value

The investment advisor of the basket fund, Blackrock Fund Advisors (“BFA”), may from time to time be called upon to make certain policy decisions or judgments with respect to the implementation of policies concerning the calculation of the net asset value of the basket fund, additions, deletions or substitutions of securities in the basket fund and the manner in which changes affecting the underlying index for the basket fund are reflected in the basket fund that could affect the market price of the shares of the basket fund, and therefore, the amount payable on your notes on the stated maturity date. The amount payable on your notes and their market value could also be affected if the investment advisor changes these policies, for example, by changing the manner in which it calculates the net asset value of the basket fund, or if the investment advisor discontinues or suspends calculation or publication of the net asset value of the basket fund, in which case it may become difficult or inappropriate to determine the market value of your notes. If events such as these occur, the calculation agent — which initially will be GS&Co. — may determine the closing level of the basket fund on the determination date — and thus the amount payable on the stated maturity date — in a manner, in its sole discretion, it considers appropriate. We describe the discretion that the calculation agent will have in determining the levels of the basket underliers on the determination date and the amount payable on your notes more fully under “Supplemental Terms of the Notes — Discontinuance or Modification of a Basket Underlier” on page S-27 and “— Role of Calculation Agent” on page S-28 of the accompanying general terms supplement no. 1,734.

In addition, MSCI, the underlier sponsor of the underlying index of the basket fund, owns the underlying index and is responsible for the design and maintenance of the underlying index. The policies of the underlier sponsor concerning the calculation of the underlying index, including decisions regarding the addition, deletion or substitution of the equity securities included in the underlying index, could affect the level of the underlying index and, consequently, could affect the market prices of shares of the related basket fund and, therefore, the cash settlement amount payable on your notes and their market value.

There Are Risks Associated With the Basket Fund

Although the shares of the basket fund are listed for trading on the NYSE Arca, Inc. (the “NYSE Arca”), a number of similar products have been traded on the NYSE Arca or other securities exchanges for varying periods of time, and there is no assurance that an active trading market will continue for the shares of the basket fund or that there will be liquidity in the trading market.





### Table of Contents

In addition, the basket fund is subject to management risk, which is the risk that the basket fund investment advisor's investment strategy, the implementation of which is subject to a number of constraints, may not produce the intended results. For example, the basket fund investment advisor may select a portion of the basket fund's assets to be invested in securities that are not included in its underlying index. The basket fund is also not actively managed and may be affected by a general decline in market segments relating to the underlying index. The basket fund investment advisor invests in securities included in, or representative of, the underlying index regardless of their investment merits. The basket fund investment advisor does not attempt to take defensive positions in declining markets.

In addition, the basket fund is subject to custody risk, which refers to the risks in the process of clearing and settling trades and to the holding of securities by local banks, agents and depositories. Low trading volumes and volatile prices in less developed markets make trades harder to complete and settle, and governments or trade groups may compel local agents to hold securities in designated depositories that are not subject to independent evaluation. The less developed a country's securities market is, the greater the likelihood of custody problems.

Further, under continuous listing standards adopted by the NYSE Arca, the basket fund will be required to confirm on an ongoing basis that the components of its underlying index satisfy the applicable listing requirements. In the event that its underlying index does not comply with the applicable listing requirements, the basket fund would be required to rectify such non-compliance by requesting that the underlying index sponsor modify such underlying index, adopting a new underlying index or obtaining relief from the Securities and Exchange Commission. There can be no assurance that the underlying index sponsor would so modify the underlying index or that relief would be obtained from the Securities and Exchange Commission and, therefore, non-compliance with the continuous listing standards may result in the basket fund being delisted by the NYSE Arca.

The Basket Fund and its Underlying Index are Different and the Performance of the Basket Fund May Not Correlate With the Performance of its Underlying Index

The basket fund uses a representative sampling strategy (more fully described under "The Basket Underliers — iShares® MSCI Emerging Markets ETF") to attempt to track the performance of its underlying index. The basket fund may not hold all or substantially all of the equity securities included in its underlying index and may hold securities or assets not included in its underlying index. Therefore, while the performance of the basket fund is generally linked to the performance of its underlying index, the performance of the basket fund is also linked in part to shares of equity securities not included in its underlying index and to the performance of other assets, such as futures contracts, options and swaps, as well as cash and cash equivalents, including shares of money market funds affiliated with its underlier investment advisor.

Imperfect correlation between the basket fund's portfolio securities and those in its underlying index, rounding of prices, changes to its underlying index and regulatory requirements may cause tracking error, which is the divergence of the basket fund's performance from that of its underlying index.

In addition, the performance of the basket fund will reflect additional transaction costs and fees that are not included in the calculation of its underlying index and this may increase the tracking error of the basket fund. Also, corporate actions with respect to the sample of equity securities (such as mergers and spin-offs) may impact the performance differential between the basket fund and its underlying index. Finally, because the shares of the basket fund are traded on the NYSE Arca and are subject to market supply and investor demand, the market value of one share of the basket fund may differ from the net asset value per share of the basket fund.

For all of the foregoing reasons, the performance of the basket fund may not correlate with the performance of its underlying index. Consequently, the cash settlement amount payable on your notes will not be the same as investing directly in the basket fund or in its underlying index or in any of the underlier stocks or in any of the underlying index stocks, and will not be the same as investing in a debt security with a payment at maturity linked to the performance of the underlying index.

## Table of Contents

### **An Investment in the Offered Notes Is Subject to Risks Associated with Foreign Securities**

The value of your notes is linked, in part, to the EURO STOXX 50<sup>®</sup> Index, which is comprised of stocks from one or more foreign securities markets, the NASDAQ-100 Index<sup>®</sup>, which is comprised, in part, of stocks from one or more foreign securities markets, and the iShares<sup>®</sup> MSCI Emerging Markets ETF, which holds stocks traded in the equity markets of emerging market countries. Investments linked to the value of foreign equity securities involve particular risks. Any foreign securities market may be less liquid, more volatile and affected by global or domestic market developments in a different way than are the U.S. securities market or other foreign securities markets. Both government intervention in a foreign securities market, either directly or indirectly, and cross-shareholdings in foreign companies, may affect trading prices and volumes in that market. Also, there is generally less publicly available information about foreign companies than about those U.S. companies that are subject to the reporting requirements of the U.S. Securities and Exchange Commission. Further, foreign companies are subject to accounting, auditing and financial reporting standards and requirements that differ from those applicable to U.S. reporting companies.

The prices of securities in a foreign country are subject to political, economic, financial and social factors that are unique to such foreign country's geographical region. These factors include: recent changes, or the possibility of future changes, in the applicable foreign government's economic and fiscal policies; the possible implementation of, or changes in, currency exchange laws or other laws or restrictions applicable to foreign companies or investments in foreign equity securities; fluctuations, or the possibility of fluctuations, in currency exchange rates; and the possibility of outbreaks of hostility, political instability, natural disaster or adverse public health developments. The United Kingdom has voted to leave the European Union (popularly known as "Brexit"). The effect of Brexit is uncertain, and Brexit has and may continue to contribute to volatility in the prices of securities of companies located in Europe and currency exchange rates, including the valuation of the euro and British pound in particular. Any one of these factors, or the combination of more than one of these factors, could negatively affect such foreign securities market and the price of securities therein. Further, geographical regions may react to global factors in different ways, which may cause the prices of securities in a foreign securities market to fluctuate in a way that differs from those of securities in the U.S. securities market or other foreign securities markets. Foreign economies may also differ from the U.S. economy in important respects, including growth of gross national product, rate of inflation, capital reinvestment, resources and self-sufficiency, which may have a positive or negative effect on foreign securities prices.

Because foreign exchanges may be open on days when the basket fund is not traded, the value of the securities underlying the basket fund may change on days when shareholders will not be able to purchase or sell shares of the basket fund.

In addition, the basket fund holds stocks traded in equity markets of emerging market countries. The countries whose markets are represented by the iShares<sup>®</sup> MSCI Emerging Markets ETF include Brazil, Chile, China, Colombia, the Czech Republic, Egypt, Greece, Hungary, India, Indonesia, Malaysia, Mexico, Pakistan, Peru, Philippines, Poland, Qatar, Russia, South Africa, South Korea, Taiwan, Thailand, Turkey and United Arab Emirates.

Countries with emerging markets may have relatively unstable governments, may present the risks of nationalization of businesses, restrictions on foreign ownership and prohibitions on the repatriation of assets, and may have less protection of property rights than more developed countries. The economies of countries with emerging markets may be based on only a few industries, may be highly vulnerable to changes in local or global trade conditions, and may suffer from extreme and volatile debt burdens or inflation rates. Local securities markets may trade a small number of securities and may be unable to respond effectively to increases in trading volume, potentially making prompt liquidation of holdings difficult or impossible at times. It will also likely be more costly and difficult for the investment advisor to enforce the laws or regulations of a foreign country or trading facility, and it is possible that the foreign country or trading facility may not have laws or regulations which adequately protect the rights and interests of investors in the stocks included in the basket fund.

### **Your Investment in the Notes Will Be Subject to Foreign Currency Exchange Rate Risk**

The basket fund holds assets that are denominated in non-U.S. dollar currencies. The value of the assets held by the basket fund that are denominated in non-U.S. dollar currencies will be adjusted to reflect their U.S. dollar value by converting the price of such assets from the non-U.S. dollar currency to U.S. dollars. Consequently, if the value of the U.S. dollar strengthens against the non-U.S. dollar currency in



### Table of Contents

which an asset is denominated, the level of the basket fund may not increase even if the non-dollar value of the asset held by such basket fund increases.

Foreign currency exchange rates vary over time, and may vary considerably during the term of your notes. Changes in a particular exchange rate result from the interaction of many factors directly or indirectly affecting economic and political conditions. Of particular importance are:

- existing and expected rates of inflation;
- existing and expected interest rate levels;
- the balance of payments among countries;
- the extent of government surpluses or deficits in the relevant foreign country and the United States; and
- other financial, economic, military and political factors.

All of these factors are, in turn, sensitive to the monetary, fiscal and trade policies pursued by the governments of the relevant foreign countries and the United States and other countries important to international trade and finance.

The market price of the notes and level of the basket fund could also be adversely affected by delays in, or refusals to grant, any required governmental approval for conversions of a local currency and remittances abroad or other de facto restrictions on the repatriation of U.S. dollars.

It has been reported that the U.K. Financial Conduct Authority and regulators from other countries are in the process of investigating the potential manipulation of published currency exchange rates. If such manipulation has occurred or is continuing, certain published exchange rates may have been, or may be in the future, artificially lower (or higher) than they would otherwise have been. Any such manipulation could have an adverse impact on any payments on, and the value of, your notes and the trading market for your notes. In addition, we cannot predict whether any changes or reforms affecting the determination or publication of exchange rates or the supervision of currency trading will be implemented in connection with these investigations. Any such changes or reforms could also adversely impact your notes.

**Your Notes Are Linked to The EURO STOXX 50® Index, Which Is Comprised of Underlier Stocks That Are Traded in a Foreign Currency But Not Adjusted to Reflect Their U.S. Dollar Value, And, Therefore, the Return on Your Notes Will Not Be Adjusted for Changes in the Foreign Currency Exchange Rate**

Your notes are linked, in part, to the EURO STOXX 50® Index whose underlier stocks are traded in a foreign currency but not adjusted to reflect their U.S. dollar value. The amount payable on your notes will not be adjusted for changes in the euro/U.S. dollar exchange rate. The amount payable will be based solely upon the overall change in the level of the EURO STOXX 50® Index. Changes in foreign currency exchange rates, however, may reflect changes in the economy of the foreign countries in which the EURO STOXX 50® Index's component stocks are listed that, in turn, may affect the level of the EURO STOXX 50® Index.

**As Compared to Other Index Sponsors, Nasdaq Inc. Retains Significant Control and Discretionary Decision-Making Over the NASDAQ-100® Index, Which May Have an Adverse Effect on the Level of the NASDAQ-100 Index® and on Your Notes**

Pursuant to the underlier methodology, Nasdaq Inc. retains the right, from time to time, to exercise reasonable discretion as it deems appropriate in order to ensure integrity of the NASDAQ-100 Index®, including, but not limited to, changes to quantitative inclusion criteria. Nasdaq Inc. may also, due to special circumstances, apply discretionary adjustments to ensure and maintain quality of the NASDAQ-100® Index. Although it is unclear how and to what extent this discretion could or would be exercised, it is possible that it could be exercised by Nasdaq Inc. in a manner that materially and adversely affects the level of the NASDAQ-100® Index and therefore your notes. Nasdaq Inc. is not obligated to, and will not, take account of your interests in exercising the discretion described above.

**Your Notes May Be Subject to an Adverse Change in Tax Treatment in the Future**

The tax consequences of an investment in your notes are uncertain, both as to the timing and character of any inclusion in income in respect of your notes.

## Table of Contents

The Internal Revenue Service announced on December 7, 2007 that it is considering issuing guidance regarding the proper U.S. federal income tax treatment of an instrument such as your notes, and any such guidance could adversely affect the tax treatment and the value of your notes. Among other things, the Internal Revenue Service may decide to require the holders to accrue ordinary income on a current basis and recognize ordinary income on payment at maturity, and could subject non-U.S. investors to withholding tax. Furthermore, in 2007, legislation was introduced in Congress that, if enacted, would have required holders that acquired instruments such as your notes after the bill was enacted to accrue interest income over the term of such instruments even though there will be no interest payments over the term of such instruments. It is not possible to predict whether a similar or identical bill will be enacted in the future, or whether any such bill would affect the tax treatment of your notes. We describe these developments in more detail under “Supplemental Discussion of Federal Income Tax Consequences” on page S-41 of the accompanying product supplement no. 1,738. You should consult your tax advisor about this matter. Except to the extent otherwise provided by law, GS Finance Corp. intends to continue treating the notes for U.S. federal income tax purposes in accordance with the treatment described under “Supplemental Discussion of Federal Income Tax Consequences” on page S-41 of the accompanying product supplement no. 1,738 unless and until such time as Congress, the Treasury Department or the Internal Revenue Service determine that some other treatment is more appropriate.

### United States Alien Holders Should Consider the Withholding Tax Implications of Owning the Notes

The Treasury Department has issued regulations under which amounts paid or deemed paid on certain financial instruments (“871(m) financial instruments”) that are treated as attributable to U.S.-source dividends could be treated, in whole or in part depending on the circumstances, as a “dividend equivalent” payment that is subject to tax at a rate of 30% (or a lower rate under an applicable treaty), which in the case of any amounts a United States alien holder receives upon the sale, exchange or maturity of your notes, could be collected via withholding. If these regulations were to apply to the notes, we may be required to withhold such taxes if any U.S.-source dividends are paid on the basket fund or on the stocks included in the basket indices during the term of the notes. We could also require a United States alien holder to make certifications (e.g., an applicable Internal Revenue Service Form W-8) prior to the maturity of the notes in order to avoid or minimize withholding obligations, and we could withhold accordingly (subject to the United States alien holder’s potential right to claim a refund from the Internal Revenue Service) if such certifications were not received or were not satisfactory. If withholding was required, we would not be required to pay any additional amounts with respect to amounts so withheld. These regulations generally will apply to 871(m) financial instruments (or a combination of financial instruments treated as having been entered into in connection with each other) issued (or significantly modified and treated as retired and reissued) on or after January 1, 2021, but will also apply to certain 871(m) financial instruments (or a combination of financial instruments treated as having been entered into in connection with each other) that have a delta (as defined in the applicable Treasury regulations) of one and are issued (or significantly modified and treated as retired and reissued) on or after January 1, 2017. In addition, these regulations will not apply to financial instruments that reference a “qualified index” (as defined in the regulations). We have determined that, as of the issue date of your notes, your notes will not be subject to withholding under these rules. In certain limited circumstances, however, you should be aware that it is possible for United States alien holders to be liable for tax under these rules with respect to a combination of transactions treated as having been entered into in connection with each other even when no withholding is required. You should consult your tax advisor concerning these regulations, subsequent official guidance and regarding any other possible alternative characterizations of your notes for U.S. federal income tax purposes.

### Your Notes May Be Subject to the Constructive Ownership Rules

There exists a risk that the constructive ownership rules of Section 1260 of the Internal Revenue Code could apply to all or a portion of your notes. If all or a portion of your notes were subject to the constructive ownership rules, then all or a portion of any long-term capital gain that you realize upon the sale, exchange or maturity of your notes would be re-characterized as ordinary income (and you would be subject to an interest charge on deferred tax liability with respect to such re-characterized capital gain) to the extent that such capital gain exceeds the amount of “net underlying long-term capital gain” (as defined in Section 1260 of the Internal Revenue Code). Because the application of the constructive ownership rules is unclear you are strongly urged to consult your tax advisor with respect to the possible application of the constructive ownership rules to your investment in the notes.

PS-20

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Table of Contents

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

Please see the discussion under “United States Taxation — Taxation of Debt Securities — Foreign Account Tax Compliance Act (FATCA) Withholding” in the accompanying prospectus for a description of the applicability of FATCA to payments made on your notes.

PS-21

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Table of Contents

THE BASKET AND THE BASKET UNDERLIERS

The Basket

The basket is comprised of the following basket underliers with the following initial weights within the basket: the S&P 500<sup>®</sup> Index (40% weighting), the EURO STOXX 50<sup>®</sup> Index (28% weighting), the NASDAQ-100 Index<sup>®</sup> (25% weighting) and the iShares<sup>®</sup> MSCI Emerging Markets ETF (7% weighting).

The S&P 500<sup>®</sup> Index

The S&P 500<sup>®</sup> Index includes a representative sample of 500 leading companies in leading industries of the U.S. economy. The S&P 500<sup>®</sup> Index is calculated, maintained and published by S&P Dow Jones Indices LLC (“S&P”). As of July 31, 2017, companies with multiple share class lines are no 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 an S&P 500<sup>®</sup> Index constituent reorganizes into a multiple share class line structure, that company will be reviewed for continued inclusion in the S&P 500<sup>®</sup> Index at the discretion of the S&P Index Committee. Also as of July 31, 2017, the criteria employed by S&P for purposes of making additions to the S&P 500<sup>®</sup> Index were changed as follows:

with respect to the “U.S. company” criterion, (i) the IEX was added as an “eligible exchange” for the primary listing of the relevant company’s common stock and (ii) the former “corporate governance structure consistent with U.S. practice” requirement was removed; and

with respect to constituents of the S&P MidCap 400<sup>®</sup> Index and the S&P SmallCap 600<sup>®</sup> Index that are being considered for addition to the S&P 500<sup>®</sup> Index, the financial viability, public float and/or liquidity eligibility criteria no longer need to be met if the S&P Index Committee decides that such an addition will enhance the representativeness of the S&P 500<sup>®</sup> Index as a market benchmark.

As of October 25, 2018, the 500 companies included in the S&P 500<sup>®</sup> Index were divided into eleven Global Industry Classification Sectors. The Global Industry Classification Sectors include (with the approximate percentage currently included in such sectors indicated in parentheses): Communication Services (10.10%), Consumer Discretionary (10.06%), Consumer Staples (7.34%), Energy (5.70%), Financials (13.29%), Health Care (15.02%), Industrials (9.32%), Information Technology (20.87%), Materials (2.32%), Real Estate (2.83%) and Utilities (3.15%). (Sector designations are determined by the underlier sponsor using criteria it has selected or developed. Index sponsors may use very different standards for determining sector designations. In addition, many companies operate in a number of sectors, but are listed in only one sector and the basis on which that sector is selected may also differ. As a result, sector comparisons between indices with different index sponsors may reflect differences in methodology as well as actual differences in the sector composition of the indices.) As of the close of business on September 21, 2018, S&P and MSCI, Inc. updated the Global Industry Classification Sector structure. Among other things, the update broadened the Telecommunications Services sector and renamed it the Communication Services sector. The renamed sector includes the previously existing Telecommunication Services Industry group, as well as the Media Industry group, which was moved from the Consumer Discretionary sector and renamed the Media & Entertainment Industry group. The Media & Entertainment Industry group contains three industries: Media, Entertainment and Interactive Media & Services. The Media industry continues to consist of the Advertising, Broadcasting, Cable & Satellite and Publishing sub-industries. The Entertainment industry contains the Movies & Entertainment sub-industry (which includes online entertainment streaming companies in addition to companies previously classified in such industry prior to September 21, 2018) and the Interactive Home Entertainment sub-industry (which includes companies previously classified in the Home Entertainment Software sub-industry prior to September 21, 2018 (when the Home Entertainment Software sub-industry was a sub-industry in the Information Technology sector)), as well as producers of interactive gaming products, including mobile gaming applications). The Interactive Media & Services industry and sub-industry includes companies engaged in content and information creation or distribution through proprietary platforms, where revenues are derived primarily through pay-per-click advertisements, and includes search engines, social media and networking platforms, online classifieds and online review companies. The Global Industry Classification



Table of Contents

Sector structure changes are effective for the S&P 500<sup>®</sup> Index as of the open of business on September 24, 2018 to coincide with the September 2018 quarterly rebalancing.

The above information supplements the description of the underlier found in the accompanying general terms supplement no. 1,734. This information was derived from information prepared by the underlier sponsor, however, the percentages we have listed above are approximate and may not match the information available on the underlier sponsor's website due to subsequent corporate actions or other activity relating to a particular stock. For more details about the underlier, the underlier sponsor and license agreement between the underlier sponsor and the issuer, see "The Underliers — S&P 500<sup>®</sup> Index" on page S-40 of the accompanying general terms supplement no. 1,734.

The S&P 500<sup>®</sup> Index is a product of S&P Dow Jones Indices LLC, and has been licensed for use by GS Finance Corp. ("Goldman"). Standard & Poor<sup>®</sup> and S&P<sup>®</sup> are registered trademarks of Standard & Poor's Financial Services LLC; Dow Jones<sup>®</sup> is a registered trademark of Dow Jones Trademark Holdings LLC ("Dow Jones") and these trademarks have been licensed for use by S&P Dow Jones Indices LLC and sublicensed for certain purposes by Goldman.

Goldman's notes are not sponsored, endorsed, sold or promoted by S&P Dow Jones Indices LLC, Dow Jones, Standard & Poor's Financial Services LLC or any of their respective affiliates and neither S&P Dow Jones Indices LLC, Dow Jones, Standard & Poor's Financial Services LLC or any of their respective affiliates make any representation regarding the advisability of investing in such notes.

The EURO STOXX 50<sup>®</sup> Index

The EURO STOXX 50<sup>®</sup> Index is a free-float market capitalization-weighted index of 50 European blue-chip stocks and was created by and is sponsored and maintained by STOXX Limited. Publication of the EURO STOXX 50<sup>®</sup> Index began on February 26, 1998, based on an initial index value of 1,000 at December 31, 1991. The level of the EURO STOXX 50<sup>®</sup> Index is disseminated on the STOXX Limited website. STOXX Limited is under no obligation to continue to publish the index and may discontinue publication of it at any time. Additional information regarding the EURO STOXX 50<sup>®</sup> Index may be obtained from the STOXX Limited website: [stox.com](http://stox.com). We are not incorporating by reference the website or any material it includes in this pricing supplement.

The top ten constituent stocks of the EURO STOXX 50<sup>®</sup> Index as of October 29, 2018, by weight, are: Total S.A. (6.11%), SAP SE (4.50%), Siemens AG (3.88%), Sanofi (3.79%), Allianz SE (3.50%), Unilever N.V. (3.23%), LVMH Moët Hennessy Louis Vuitton SE (3.15%), Banco Santander S.A. (2.99%), Bayer AG (2.85%) and ASML Holding N.V. (2.82%); constituent weights may be found at [stox.com/download/indices/factsheets/SX5GT.pdf](http://stox.com/download/indices/factsheets/SX5GT.pdf) under "Factsheets and Methodologies" and are updated periodically.

As of October 29, 2018, the sixteen industry sectors which comprise the EURO STOXX 50<sup>®</sup> Index represent the following weights in the index: Automobiles & Parts (4.38%), Banks (11.46%), Chemicals (4.79%), Construction & Materials (2.89%), Food & Beverage (4.35%), Health Care (10.27%), Industrial Goods & Services (10.86%), Insurance (6.82%), Media (0.94%), Oil & Gas (7.87%), Personal & Household Goods (10.11%), Real Estate (0.98%), Retail (3.64%), Technology (9.95%), Telecommunications (4.81%) and Utilities (4.15%); industry weightings may be found at [stox.com/download/indices/factsheets/SX5GT.pdf](http://stox.com/download/indices/factsheets/SX5GT.pdf) under "Factsheets and Methodologies" and are updated periodically. Percentages may not sum to 100% due to rounding. Sector designations are determined by the basket underlier sponsor using criteria it has selected or developed. Index sponsors may use very different standards for determining sector designations. In addition, many companies operate in a number of sectors, but are listed in only one sector and the basis on which that sector is selected may also differ. As a result, sector comparisons between indices with different index sponsors may reflect differences in methodology as well as actual differences in the sector composition of the indices.

As of October 29, 2018, the eight countries which comprise the EURO STOXX 50<sup>®</sup> Index represent the following weights in the index: Belgium (2.55%), Finland (1.24%), France (38.94%), Germany (29.19%), Ireland (2.68%), Italy (4.76%), Netherlands (10.35%) and Spain (10.29%); country weightings may be found at [stox.com/download/indices/factsheets/SX5GT.pdf](http://stox.com/download/indices/factsheets/SX5GT.pdf) under "Factsheets and Methodologies" and are updated periodically. The above information supplements the description of the basket underlier found in the accompanying general terms supplement no. 1,734. This information was derived from information prepared by the basket

Table of Contents

underlier sponsor, however, the percentages we have listed above are approximate and may not match the information available on the basket underlier sponsor's website due to subsequent corporate actions or other activity relating to a particular stock. For more details about the basket underlier, the basket underlier sponsor and license agreement between the basket underlier sponsor and the issuer, see “The Underliers — EURO STOXX<sup>®</sup>50 Index” on page S-75 of the accompanying general terms supplement no. 1,734.

The EURO STOXX 50<sup>®</sup> is the intellectual property of STOXX Limited, Zurich, Switzerland and/or its licensors (“Licensors”), which is used under license. The securities or other financial instruments based on the index are in no way sponsored, endorsed, sold or promoted by STOXX and its Licensors and neither STOXX nor its Licensors shall have any liability with respect thereto.

The NASDAQ-100 Index<sup>®</sup>

The NASDAQ-100 Index<sup>®</sup> includes 100 of the largest domestic and international non-financial stocks listed on The NASDAQ Stock Market based on market capitalization. The NASDAQ-100 Index<sup>®</sup> is a “price return” index and is calculated using a modified market capitalization-weighted methodology. The NASDAQ-100 Index<sup>®</sup> is calculated, maintained and published by Nasdaq, Inc. The base date for the NASDAQ-100 Index<sup>®</sup> is January 31, 1985, with a base value of 125.00, as adjusted. We have derived all information contained in this document regarding the NASDAQ-100 Index<sup>®</sup> from publicly available information. Additional information about the NASDAQ-100 Index<sup>®</sup> is available on the following website: [indexes.nasdaqomx.com/Index/Overview/NDX](http://indexes.nasdaqomx.com/Index/Overview/NDX). We are not incorporating by reference the website or any material it includes in this pricing supplement.

As of October 29, 2018, the 103 stocks included in the NASDAQ-100 Index<sup>®</sup> were classified into ten industry sectors (with the approximate percentage currently included in such sectors indicated in parentheses): Technology (55.58%), Consumer Services (23.82%), Health Care (9.11%), Consumer Goods (6.14%), Industrials (4.52%), Telecommunications (0.83%), Oil & Gas (0.00%), Basic Materials (0.00%), Utilities (0.00%) and Financials (0.00%). (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.)

The top ten constituent stocks of the NASDAQ-100 Index<sup>®</sup> as of October 29, 2018, by weight, are: Apple Inc. (13.29%), Microsoft Corporation (10.32%), Amazon.com Inc. (9.73%), Alphabet Inc. Class C (4.63%), Facebook Inc. (4.44%), Alphabet Inc. Class A (4.01%), Cisco Systems Inc. (2.67%), Intel Corporation (2.71%), Comcast Corporation (2.13%) and PepsiCo Inc. (2.07%).

Index Stocks With Weights Equal to or in Excess of 5% of the NASDAQ-100 Index<sup>®</sup> as of October 29, 2018

Apple Inc., Microsoft Corporation and Amazon.com Inc. are registered under the Exchange Act. Companies with stocks registered under the Exchange Act are required to file financial and other information specified by the U.S. Securities and Exchange Commission (“SEC”) periodically. Information filed with the SEC can be inspected and copied at the SEC’s public reference room located at 100 F Street, N.E., Washington, D.C. 20549, at prescribed rates. You may obtain information on the operation of the public reference room by calling the SEC at 1-800-SEC-0330. In addition, information filed by these index stock issuers with the SEC electronically can be reviewed through a web site maintained by the SEC. The address of the SEC’s web site is [sec.gov](http://sec.gov). Information filed with the SEC by each of the above-referenced index stock issuers under the Exchange Act can be located by referencing its SEC file number specified below.

The graphs below, except where otherwise indicated, show the daily historical closing prices of Apple Inc., Microsoft Corporation and Amazon.com Inc., the constituent stocks comprising 5% or more of the NASDAQ-100 Index<sup>®</sup>, from October 29, 2008 through October 29, 2018. We obtained the prices in the graphs below using data from Bloomberg Financial Services, without independent verification. We have taken the descriptions of the index stock issuers set forth below from publicly available information without independent verification.

Table of Contents

According to publicly available information, Apple Inc. designs, manufactures and markets mobile communication and media devices, personal computers, and portable digital music players, and sells a variety of related software, services, peripherals, networking solutions, and third-party digital content and applications. Information filed with the SEC by the index stock issuer under the Exchange Act can be located by referencing SEC file number 001-36743 for filings on or after November 12, 2014 and SEC file number 000-10030 for filings prior to November 12, 2014.

Historical Performance of Apple Inc.

According to publicly available information, Microsoft Corporation develops, licenses and supports software products, services and devices and designs and sells hardware devices. Information filed with the SEC by the index stock issuer under the Exchange Act can be located by referencing SEC file number 001-37845 for filings on or after July 26, 2016 and SEC file number 000-14278 for filings prior to July 26, 2016.

Historical Performance of Microsoft Corporation

PS-25

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Table of Contents

According to publicly available information, Amazon.com Inc. is an e-commerce company. Information filed with the SEC by the index stock issuer under the Exchange Act can be located by referencing SEC file number 000-22513.

**Historical Performance of Amazon.com Inc.**

Construction of the NASDAQ-100 Index®

The NASDAQ-100 Index® is a modified market capitalization-weighted index. Except under extraordinary circumstances that may result in an interim evaluation, NASDAQ-100 Index® composition is reviewed on an annual basis in December. First, Nasdaq, Inc. determines which stocks meet the applicable eligibility criteria.

Selection Criteria for Initial Inclusion in the NASDAQ-100 Index®

To be eligible for initial inclusion in the NASDAQ-100 Index®, a stock must meet the following criteria:

- the issuer of the stock's primary U.S. listing must be exclusively listed on the NASDAQ Global Select Market or the NASDAQ Global Market (unless the stock was dually listed on another U.S. market prior to January 1, 2004 and has continuously maintained such listing);
- the stock must be issued by a non-financial company. Non-financial companies are those companies that are classified under any Industry Code except 8000 according to the Industry Classification Benchmark (ICB), a product of FTSE International Limited;
- the stock may not be issued by an issuer currently in bankruptcy proceedings;
- the stock must have a minimum three-month average daily trading volume ("ADTV") of 200,000 shares (measured annually during the ranking review process). The ADTV is determined by calculating the average of the sum product of the stock's daily trading volume for each day during the previous three month period;
- if the issuer of the stock is organized under the laws of a jurisdiction outside the U.S., then such stock must have listed options on a recognized options market in the U.S. or be eligible for listed-options trading on a recognized options market in the U.S. (measured annually during the ranking review process);
- the issuer of the stock may not have entered into a definitive agreement or other arrangement which would likely result in the stock no longer being eligible for inclusion in the NASDAQ-100 Index®;
- the issuer of the stock may not have annual financial statements with an audit opinion that is currently withdrawn. This will be determined based upon a stock issuer's public filings with the SEC; and

### Table of Contents

the stock must have “seasoned” on Nasdaq, NYSE or NYSE Amex. Generally, a company is considered to be seasoned if it has been listed on a market for at least three full months (excluding the first month of initial listing).

Stock types generally eligible for inclusion in the NASDAQ-100 Index<sup>®</sup> are common stocks, ordinary shares, ADRs and tracking stocks. Closed-end funds, convertible debentures, exchange traded funds, limited liability companies, limited partnership interests, preferred stocks, rights, shares or units of beneficial interest, warrants, units and other derivative stocks are not eligible for inclusion in the NASDAQ-100 Index<sup>®</sup>. For purposes of NASDAQ-100 Index<sup>®</sup> eligibility criteria, if the stock is a depositary receipt representing a stock of a non-U.S. issuer, then references to the “issuer” are references to the issuer of the underlying stock. The NASDAQ-100 Index<sup>®</sup> does not contain securities of investment companies.

### Continued Eligibility Criteria

To be eligible for continued inclusion in the NASDAQ-100 Index<sup>®</sup>, a NASDAQ-100 Index<sup>®</sup> stock must meet the following criteria:

- the issuer of the stock’s primary U.S. listing must be exclusively listed on the Nasdaq Global Select Market or the Nasdaq Global Market;

- the stock must be issued by a non-financial company;

- the stock may not be issued by an issuer currently in bankruptcy proceedings;

- the stock must have an ADTV of at least 200,000 shares (measured annually during the ranking review process); if the issuer of the stock is organized under the laws of a jurisdiction outside the U.S., then such stock must have listed options on a recognized options market in the U.S. or be eligible for listed-options trading on a recognized options market in the U.S.;

- the issuer must have an adjusted market capitalization equal to or exceeding 0.10% of the aggregate adjusted market capitalization of the NASDAQ-100 Index<sup>®</sup> at each month-end. In the event a company does not meet this criterion for two consecutive month-ends, it is removed from the NASDAQ-100 Index<sup>®</sup> effective after the close of trading on the third Friday of the following month; and

- the issuer of the stock may not have annual financial statements with an audit opinion that is currently withdrawn.

All stocks meeting the above criteria will be considered eligible for inclusion in the NASDAQ-100 Index<sup>®</sup>. Those stocks which are found to meet the applicable eligibility criteria during the annual review are then ranked by market capitalization. While there is no minimum market capitalization requirement, inclusion will be determined based on the top 100 issuers with the largest market capitalization meeting all other eligibility requirements. Market capitalization is determined by multiplying a stock’s last sale price by its total number of shares outstanding. The last sale price refers to the price at which a stock last traded during regular market hours as reported on such stock’s index market, which may be the Nasdaq Official Closing Price (NOCP). The index market is the index eligible stock market for which the NASDAQ-100 Index<sup>®</sup> stock’s prices are received and used by Nasdaq, Inc. for purposes of calculating the NASDAQ-100 Index<sup>®</sup>.

NASDAQ-100 Index<sup>®</sup> eligible stocks which are already in the NASDAQ-100 Index<sup>®</sup> and whose issuer is ranked in the top 100 eligible companies based on market capitalization are retained in the NASDAQ-100 Index<sup>®</sup>. An index stock issuer ranking 101 to 125 based on market capitalization will also be retained for inclusion in the NASDAQ-100 Index<sup>®</sup> if such issuer was previously ranked in the top 100 issuers as of the last annual ranking review or was added to the NASDAQ-100 Index<sup>®</sup> subsequent to the previous ranking review and continues to meet all eligibility criteria.

Index stock issuers not meeting such criteria are replaced. The replacement stocks are those eligible stocks not currently in the NASDAQ-100 Index<sup>®</sup> whose issuers have the next largest market capitalization.

The data used in the process of ranking by market capitalization includes end of October market data and is updated for total shares outstanding submitted in an index stock issuer’s publicly filed SEC document

## Table of Contents

via the Electronic Data Gathering, Analysis and Retrieval system (EDGAR) through the end of November. If a stock is a depositary receipt, the total shares outstanding is the actual depositary shares outstanding as reported by the depositary banks.

The final list of constituents included in the NASDAQ-100 Index<sup>®</sup>, including any replacements made during the annual review, is made effective after the close of trading on the third Friday in December. Generally, the list of annual additions and deletions as a result of the annual review is publicly announced by Nasdaq, Inc. via a press release in the early part of December, in conjunction with an announcement on Nasdaq, Inc.'s website.

### NASDAQ-100 Index<sup>®</sup> Calculation

The discussion below describes the "price return" calculation of the NASDAQ-100 Index<sup>®</sup> As compared to the total return or notional net total return versions of the NASDAQ-100 Index<sup>®</sup>, the price return version is ordinarily calculated without regard to cash dividends on the NASDAQ-100 Index<sup>®</sup> stocks. However, all NASDAQ-100 Index<sup>®</sup> calculations reflect extraordinary cash distributions and special dividends.

The NASDAQ-100 Index<sup>®</sup> is a modified market capitalization-weighted index. The value of the NASDAQ-100 Index<sup>®</sup> equals the NASDAQ-100 Index<sup>®</sup> market value divided by the NASDAQ-100 Index<sup>®</sup> divisor. The overall NASDAQ-100 Index<sup>®</sup> market value is the aggregate of each NASDAQ-100 Index<sup>®</sup> stock's market value, as may be adjusted for any corporate actions. A NASDAQ-100 Index<sup>®</sup> stock's market value is determined by multiplying the last sale price by its index share weight, also known as "index shares". Index shares are equal to the total number of shares outstanding for a NASDAQ-100 Index<sup>®</sup> stock. In other words, the value of the NASDAQ-100 Index<sup>®</sup> is equal to (i) the sum of the products of (a) the index shares of each of the NASDAQ-100 Index<sup>®</sup> stocks multiplied by (b) each such stock's last sale price (adjusted for corporate actions, if any), divided by (ii) the divisor of the NASDAQ-100 Index<sup>®</sup>. The price return NASDAQ-100 Index<sup>®</sup> divisor is calculated as the ratio of (i) the start of day market value of the NASDAQ-100 Index<sup>®</sup> divided by (ii) the previous day NASDAQ-100 Index<sup>®</sup> value.

If trading in a NASDAQ-100 Index<sup>®</sup> stock is halted on its primary listing market, the most recent last sale price for that stock is used for all NASDAQ-100 Index<sup>®</sup> computations until trading on such market resumes. Similarly, the most recent last sale price is used if trading in a NASDAQ-100 Index<sup>®</sup> stock is halted on its primary listing market before the market opens.

The NASDAQ-100 Index<sup>®</sup> is calculated in U.S. dollars during the U.S. market trading day based on the last sale price and are disseminated once per second from 09:30:01 until 17:16:00 ET. The closing value of the NASDAQ-100 Index<sup>®</sup> may change up until 17:15:00 ET due to corrections to the last sale price of the NASDAQ-100 Index<sup>®</sup> stocks. The official closing value of the NASDAQ-100 Index<sup>®</sup> is ordinarily disseminated at 17:16:00 ET.

### NASDAQ-100 Index<sup>®</sup> Maintenance

#### Changes to NASDAQ-100 Index<sup>®</sup> Constituents

Changes to the NASDAQ-100 Index<sup>®</sup> constituents may be made during the annual ranking review. In addition, if at any time during the year other than the annual review, it is determined that an index stock issuer no longer meets the criteria for continued inclusion in the NASDAQ-100 Index<sup>®</sup>, or is otherwise determined to have become ineligible for continued inclusion in the NASDAQ-100 Index<sup>®</sup>, it is replaced with the largest market capitalization issuer not currently in the NASDAQ-100 Index<sup>®</sup> that meets the applicable eligibility criteria for initial inclusion in the NASDAQ-100 Index<sup>®</sup>.

Ordinarily, a stock will be removed from the NASDAQ-100 Index<sup>®</sup> at its last sale price. However, if at the time of its removal the NASDAQ-100 Index<sup>®</sup> stock is halted from trading on its primary listing market and an official closing price cannot readily be determined, the NASDAQ-100 Index<sup>®</sup> stock may, in Nasdaq, Inc.'s discretion, be removed at a price of \$0.00000001 ("zero price"). This zero price will be applied to the NASDAQ-100 Index<sup>®</sup> stock after the close of the market but prior to the time the official closing value of the NASDAQ-100 Index<sup>®</sup> is disseminated.

#### Divisor Adjustments

The divisor is adjusted to ensure that changes in NASDAQ-100 Index<sup>®</sup> constituents either by corporate actions (that adjust either the price or shares of a NASDAQ-100 Index<sup>®</sup> stock) or NASDAQ-100 Index<sup>®</sup>

Table of Contents

participation outside of trading hours do not affect the value of the NASDAQ-100 Index<sup>®</sup>. All divisor changes occur after the close of the applicable index stock markets.

Quarterly NASDAQ-100 Index<sup>®</sup> Rebalancing

On a quarterly basis coinciding with the quarterly scheduled index shares adjustment procedures, as discussed below, the NASDAQ-100 Index<sup>®</sup> will be rebalanced if it is determined that (1) the current weight of the single NASDAQ-100 Index<sup>®</sup> stock with the largest market capitalization is greater than 24.0% of the NASDAQ-100 Index<sup>®</sup> or (2) the collective weight of those stocks whose individual current weights are in excess of 4.5% exceeds 48.0% of the NASDAQ-100 Index<sup>®</sup>. In addition, a “special rebalancing” of the NASDAQ-100 Index<sup>®</sup> may be conducted at any time if Nasdaq, Inc. determines it necessary to maintain the integrity and continuity of the NASDAQ-100 Index<sup>®</sup>. If either one or both of the above weight distribution conditions are met upon quarterly review, or Nasdaq, Inc. determines that a special rebalancing is necessary, a weight rebalancing will be performed. If the first weight distribution condition is met and the current weight of the single NASDAQ-100 Index<sup>®</sup> stock with the largest market capitalization is greater than 24.0%, then the weights of all stocks with current weights greater than 1.0% (“large stocks”) will be scaled down proportionately toward 1.0% until the adjusted weight of the single largest NASDAQ-100 Index<sup>®</sup> stock reaches 20.0%.

If the second weight distribution condition is met and the collective weight of those stocks whose individual current weights are in excess of 4.5% (or adjusted weights in accordance with the previous step, if applicable) exceeds 48.0% of the NASDAQ-100 Index<sup>®</sup>, then the weights of all such large stocks in that group will be scaled down proportionately toward 1.0% until their collective weight, so adjusted, is equal to 40.0%.

The aggregate weight reduction among the large stocks resulting from either or both of the rebalancing steps above will then be redistributed to those stocks with weightings of less than 1.0% (“small stocks”) in the following manner. In the first iteration, the weight of the largest small stock will be scaled upwards by a factor which sets it equal to the average NASDAQ-100 Index<sup>®</sup> weight of 1.0%. The weights of each of the smaller remaining small stocks will be scaled up by the same factor reduced in relation to each stock’s relative ranking among the small stocks such that the smaller the NASDAQ-100 Index<sup>®</sup> stock in the ranking, the less its weight will be scaled upward. This is intended to reduce the market impact of the weight rebalancing on the smallest component stocks in the NASDAQ-100 Index<sup>®</sup>. In the second iteration of the small stock rebalancing, the weight of the second largest small stock, already adjusted in the first iteration, will be scaled upwards by a factor which sets it equal to the average NASDAQ-100 Index<sup>®</sup> weight of 1.0%. The weights of each of the smaller remaining small stocks will be scaled up by this same factor reduced in relation to each stock’s relative ranking among the small stocks such that, once again, the smaller the stock in the ranking, the less its weight will be scaled upward. Additional iterations will be performed until the accumulated increase in weight among the small stocks equals the aggregate weight reduction among the large stocks that resulted from the rebalancing in accordance with the two weight distribution conditions discussed above.

Finally, to complete the rebalancing process, once the final weighting percentages for each NASDAQ-100 Index<sup>®</sup> stock have been set, the index share weights (or index shares) will be determined anew based upon the last sale prices and aggregate capitalization of the NASDAQ-100 Index<sup>®</sup> at the close of trading on the last calendar day in February, May, August and November. Changes to the index shares will be made effective after the close of trading on the third Friday in March, June, September and December, and an adjustment to the divisor is made to ensure continuity of the NASDAQ-100 Index<sup>®</sup>. Ordinarily, new rebalanced index share weights will be determined by applying the above procedures to the current index share weights. However, Nasdaq, Inc. may, from time to time, determine rebalanced weights, if necessary, by applying the above procedure to the actual current market capitalization of the NASDAQ-100 Index<sup>®</sup> components. In such instances, Nasdaq, Inc. would announce the different basis for rebalancing prior to its implementation.

During the quarterly rebalancing, data is cutoff as of the previous month end and no changes are made to the NASDAQ-100 Index<sup>®</sup> from that cutoff until the quarterly index share change effective date, except in the case of changes due to corporate actions with an ex-date.

Table of Contents

## Corporate Actions and NASDAQ-100 Index® Adjustments

Aside from changes resulting from quarterly rebalancing, intra-quarter changes in index shares driven by corporate events can also result from a change in a NASDAQ-100 Index® stock's total shares outstanding that is greater than 10.0%. If a stock is a depositary receipt, the total shares outstanding is the actual depositary shares outstanding as reported by the depositary banks. Changes in the price and/or index shares driven by corporate events such as stock dividends, stock splits and certain spin-offs and rights issuances are adjusted on the ex-date. Changes in total shares outstanding are determined by an index stock issuer's public filings with the SEC. If the change in total shares outstanding arising from other corporate actions is greater than or equal to 10.0%, the change is made as soon as practicable. Otherwise, if the change in total shares outstanding is less than 10.0%, then all such changes are accumulated and made effective at one time on a quarterly basis after the close of trading on the third Friday in each of March, June, September and December. The index shares are derived from the stock's total shares outstanding. The index shares are then adjusted by the same percentage amount by which the total shares outstanding have changed. The following corporate actions will be made effective on the ex-date. If there is no ex-date announced by the index exchange, there will be no adjustment to the NASDAQ-100 Index® as a result of a corporate action.

**Stock Split and Stock Dividend.** A stock split and stock dividend is the action of a NASDAQ-100 Index® stock in increasing its index shares and decreasing the par value proportionately. There is no flow of capital into or out of the company. The number of index shares in the NASDAQ-100 Index® increases but the market capitalization of the stock remains unchanged. The price of the NASDAQ-100 Index® stock is adjusted to reflect the ratio of a stock split and stock dividend and a corresponding inverse adjustment to the index shares is made.

**Reverse Stock Split.** A reverse stock split is the action of a NASDAQ-100 Index® stock in decreasing its index shares and decreasing the par value in proportion. There is no flow of capital into or out of the company. The number of index shares in the NASDAQ-100 Index® decreases but the market capitalization of the stock remains unchanged. The price of the NASDAQ-100 Index® stock is adjusted to reflect the ratio of the reverse stock split and a corresponding inverse adjustment to the index shares is made.

**Special Cash Dividends.** A dividend is considered "special" if the information provided by the listing exchange in their announcement of the ex-date indicates that the dividend is special. Other nomenclature for a special dividend may include, but is not limited to, "extra", "extraordinary", "non-recurring", "one-time" and "unusual". The price of the NASDAQ-100 Index® stock in the NASDAQ-100 Index® is adjusted for the amount of the special cash dividend.

**Cash and Stock Dividends.** If a NASDAQ-100 Index® stock is paying a cash and stock dividend on the same date, the cash dividend is applied before the stock dividend unless otherwise indicated in the information provided by the index exchange. Additionally, in the case of an optional dividend which allows the holder to choose between receiving cash or stock, the adjustment will be made in the manner in which the dividend has been announced by the index exchange.

**Stock Distribution of Another Stock.** If a NASDAQ-100 Index® stock is distributing shares of a different stock, the value of the NASDAQ-100 Index® stock will be adjusted downward to reflect the ratio of the distribution. There is no adjustment to index shares. If the stock being distributed is another class of common shares of the same issuer, the value of the existing NASDAQ-100 Index® stock will be adjusted downward to reflect the ratio of the distribution with no adjustment to index shares, and the new class of shares may be added to the NASDAQ-100 Index® on a pro-rata basis.

**Spin-offs.** If a NASDAQ-100 Index® stock is spinning off a stock, the value of the NASDAQ-100 Index® stock will be adjusted downward to reflect the ratio of the distribution. There is no adjustment to index shares. If a when-issued market is established for the spin-off company, the price of the NASDAQ-100 Index® stock is adjusted downward by the value of the spinoff. The value of the spin-off is determined by multiplying the spin-off ratio by the when-issued price. In the event the value of the spinoff has not been established as indicated above then no price adjustment is made to the NASDAQ-100 Index® stock. The new stock resulting from the spin-off transaction is not added to the NASDAQ-100 Index®.



### Table of Contents

**Rights Offerings.** The price of a NASDAQ-100 Index<sup>®</sup> stock is adjusted on the ex-date for rights offerings if the rights are transferable and the offering has a subscription price on an equivalent per share basis that is less than the closing price of the underlying stock (the NASDAQ-100 Index<sup>®</sup> stock the right entitles a holder to purchase) on the day prior to the ex-date. The price of the NASDAQ-100 Index<sup>®</sup> stock is adjusted downward for the value of the right. The value of the right is equal to (1) (i) the previous last sale price of the underlying stock minus (ii) the sum of (a) the subscription price of the right plus (b) the cash dividend of the underlying stock, if any, divided by (2) the number of rights required to purchase one share plus one.

Corporate actions are implemented in the NASDAQ-100 Index<sup>®</sup> in accordance with the NASDAQ-100 Index<sup>®</sup> maintenance rules discussed above. The divisor will also be adjusted as a result of corporate actions that adjust either the price or shares of a NASDAQ-100 Index<sup>®</sup> stock. Nasdaq, Inc. will make announcements prior to the effective date of any corporate actions.

In the case of mergers and acquisitions, the index stock issuer may be removed the day following the shareholder vote or the expected expiration of the tender offer, provided the acquisition is not contested. In the event the acquisition is contested, the removal of the NASDAQ-100 Index<sup>®</sup> stock will occur as soon as reasonably practicable, once results have been received indicating that the acquisition will likely be successful.

If a company files for bankruptcy, the NASDAQ-100 Index<sup>®</sup> stock or stocks of the issuer will be removed from the NASDAQ-100 Index<sup>®</sup> as soon as practicable thereafter. The value of the NASDAQ-100 Index<sup>®</sup> stock will be considered \$0.00000001 if no other applicable price can be observed on the Nasdaq Global Select Market or the Nasdaq Global Market.

### **Discretionary Adjustments**

In addition to the above, Nasdaq, Inc. may, from time to time, exercise reasonable discretion as it deems appropriate in order to ensure NASDAQ-100 Index<sup>®</sup> integrity, including, but not limited to, changes to quantitative inclusion criteria. Nasdaq, Inc. may also, due to special circumstances, if deemed essential, apply discretionary adjustments to ensure and maintain the quality of the NASDAQ-100 Index<sup>®</sup> construction and calculation.

### **Market Disruption Events**

If a NASDAQ-100 Index<sup>®</sup> stock does not trade on its primary listing market on a given day or such index market has not opened for trading, the most recent last sale price from the index market (adjusted for corporate actions, if any) is used. If a NASDAQ-100 Index<sup>®</sup> stock is halted from trading on its index market during the trading day, the most recent last sale price is used until trading resumes.

### **Corrections and Calculations**

The closing value of the NASDAQ-100 Index<sup>®</sup> may change up until 17:15:00 ET due to corrections to the last sale price of the NASDAQ-100 Index<sup>®</sup> stocks. In the event that a change has been made to the NASDAQ-100 Index<sup>®</sup> intraday, Nasdaq, Inc. will make an announcement describing such change. In the event a NASDAQ-100 Index<sup>®</sup> calculation has been corrected retroactively, an announcement will be provided.

### **License Agreement between Nasdaq, Inc. and GS Finance Corp.**

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Table of Contents

at, or quantities of the Product(s) to be issued or in the determination or calculation of the equation by which the Product(s) is to be converted into cash. The Corporations have no liability in connection with the administration, marketing or trading of the Product(s).

The Corporations do not guarantee the accuracy and/or uninterrupted calculation of Nasdaq-100 Index<sup>®</sup> or any data included therein. The Corporations make no warranty, express or implied, as to results to be obtained by Licensee, owners of the product(s), or any other person or entity from the use of the Nasdaq-100 Index<sup>®</sup> or any data included therein. The Corporations make no express or implied warranties, and expressly disclaim all warranties of merchantability or fitness for a particular purpose or use with respect to the Nasdaq-100 Index<sup>®</sup> or any data included therein. Without limiting any of the foregoing, in no event shall the Corporations have any liability for any lost profits or special, incidental, punitive, indirect, or consequential damages, even if notified of the possibility of such damages.

The iShares<sup>®</sup> MSCI Emerging Markets ETF

The shares of the iShares<sup>®</sup> MSCI Emerging Markets ETF are issued by iShares, Inc., a registered investment company. The iShares<sup>®</sup> MSCI Emerging Markets ETF seeks investment results that correspond generally to the price and yield performance, before fees and expenses, of the MSCI Emerging Markets Index. The iShares<sup>®</sup> MSCI Emerging Markets ETF trades on the NYSE Arca under the ticker symbol “EEM”. BlackRock Fund Advisors (“BFA”) serves as the investment advisor to the iShares<sup>®</sup> MSCI Emerging Markets ETF.

The following tables display the top holdings and weighting by sector and country of the iShares<sup>®</sup> MSCI Emerging Markets ETF. A list of constituent stocks can be found at [us.iShares.com/product\\_info/fund/overview/EEM.htm](http://us.iShares.com/product_info/fund/overview/EEM.htm). We are not incorporating by reference the website or any material it includes in this pricing supplement. This information has been obtained from the iShares<sup>®</sup> website without independent verification.

iShares<sup>®</sup> MSCI Emerging Markets ETF Top Ten Holdings as of October 26, 2018

<u>ETF Stock Issuer</u>	<u>Percentage (%)</u>
TENCENT HOLDINGS LTD	4.15%
TAIWAN SEMICONDUCTOR	3.70%
SAMSUNG ELECTRONICS LTD	3.68%
ALIBABA GROUP HOLDING ADP REPRESN	3.55%
NASPERS LIMITED N LTD	1.69%
CHINA CONSTRUCTION BANK CORP H	1.61%
CHINA MOBILE LTD	1.23%
BAIDU ADR REPTG INC CLASS A	1.12%
PING AN INSURANCE (GROUP) CO OF CH	1.05%
CIA VALE DO RIO DOCE SH	0.99%
Total	22.23%

Table of Contents

## iShares® MSCI Emerging Markets ETF Weighting by Sector as of October 26, 2018\*

<u>Sector</u>	<u>Percentage (%)</u>
Information Technology	14.83%
Financials	24.48%
Consumer Discretionary	10.24%
Energy	8.58%
Materials	7.80%
Consumer Staples	6.71%
Industrials	5.42%
Communication	13.53%
Health Care	2.92%
Real Estate	2.81%
Utilities	2.59%
Cash and/or Derivatives	0.23%
Total	100.14%

\* Percentages may not sum to 100% due to rounding.

The Global Industry Classification Structure, which MSCI utilizes to classify the constituents of the MSCI Emerging Markets Index, was updated in September 2018. Please see below for additional information about these updates.

## iShares® MSCI Emerging Markets ETF Weighting by Country as of October 26, 2018\*

<u>Country</u>	<u>Percentage (%)</u>
China	30.18%
Korea (South)	14.11%
Taiwan	11.66%
India	8.46%
Brazil	7.76%
South Africa	6.01%
Russian Federation	3.93%
Mexico	3.13%
Thailand	2.50%
Malaysia	2.47%
Indonesia	2.00%
Poland	1.21%
Chile	1.13%
Qatar	1.08%
Philippines	1.02%
Cash and/or Derivatives	0.23%
Other	3.26%
Total	100.14%

\* Percentages may not sum to 100% due to rounding.

As of September 30, 2018, iShares® reported the following average annual returns on the market price of the ETF's shares and the MSCI Emerging Markets Index. The market price of the ETF's shares takes into account distributions on the shares and the returns shown account for changes in the mid-point of the bid and ask prices at 4:00 p.m., Eastern time on the relevant date. ETF shares: 1 year, -2.14%; 3 years, 11.60%; 5 years, 3.04%; 10 years, 4.26%; since inception, 10.88%; MSCI Emerging Markets Index: 1 year, -0.81%; 3 years, 12.36%; 5 years, 3.61%; 10 years, 5.40%; since ETF inception, 11.38%.

Notwithstanding the iShares® MSCI Emerging Markets ETF's investment objective, the return on your notes will not reflect any dividends paid on the shares of the iShares® MSCI Emerging Markets ETF, on the securities purchased by the iShares® MSCI Emerging Markets ETF or on the securities that comprise the MSCI Emerging Markets Index.

PS-33

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Table of Contents

As of the close on May 31, 2018, MSCI began a multi-step process to include, in the MSCI Emerging Markets Index, large cap China A shares that are not in trading suspension. As part of the first step of the inclusion process, which resulted from the May 2018 quarterly index review, MSCI added such large cap China A shares to the MSCI Emerging Markets Index at 2.5% of their foreign inclusion factor-adjusted market capitalization. In connection with the August 2018 quarterly index review, MSCI implemented the second step of the inclusion process by increasing the foreign inclusion factor-adjusted market capitalization of those existing China A share constituents from 2.5% to 5%. With the implementation of this second step, and the inclusion of additional China A shares in connection with the August 2018 quarterly index review, China A shares were initially expected to represent approximately 0.75% of the MSCI Emerging Markets Index.

MSCI has announced that, beginning in June 2019, it expects to include the MSCI Saudi Arabia Index in the MSCI Emerging Markets Index, representing on a pro forma basis a weight of approximately 2.6% of the MSCI Emerging Markets Index with 32 securities, following a two-step inclusion process. The first inclusion step is expected to coincide with the May 2019 semi-annual review and the second inclusion step is expected to take place as part of the August 2019 quarterly index review. In addition, MSCI has announced the reclassification of the MSCI Argentina Index from a “frontier market” to an “emerging market”, and the MSCI Argentina Index is expected to be included in the MSCI Emerging Markets Index coinciding with the May 2019 semi-annual index review. MSCI expects to continue to restrict the inclusion in the MSCI Argentina Index to only foreign listings of Argentinian companies, such as American depositary receipts.

As of the close of business on September 21, 2018, MSCI and S&P Dow Jones Indices LLC updated the Global Industry Classification Sector structure. Among other things, the update broadened the Telecommunications Services sector and renamed it the Communication Services sector. The renamed sector includes the previously existing Telecommunication Services Industry group, as well as the Media Industry group, which was moved from the Consumer Discretionary sector and renamed the Media & Entertainment Industry group. The Media & Entertainment Industry group contains three industries: Media, Entertainment and Interactive Media & Services. The Media industry continues to consist of the Advertising, Broadcasting, Cable & Satellite and Publishing sub-industries. The Entertainment industry contains the Movies & Entertainment sub-industry (which includes online entertainment streaming companies in addition to companies previously classified in such industry prior to September 21, 2018) and the Interactive Home Entertainment sub-industry (which includes companies previously classified in the Home Entertainment Software sub-industry prior to September 21, 2018 (when the Home Entertainment Software sub-industry was a sub-industry in the Information Technology sector)), as well as producers of interactive gaming products, including mobile gaming applications). The Interactive Media & Services industry and sub-industry includes companies engaged in content and information creation or distribution through proprietary platforms, where revenues are derived primarily through pay-per-click advertisements, and includes search engines, social media and networking platforms, online classifieds and online review companies. The Global Classification Sector structure changes will be implemented in the MSCI Emerging Markets Index in connection with the November 2018 semi-annual index review. The above information supplements the description of the iShares® MSCI Emerging Markets ETF found in the accompanying general terms supplement no. 1,734. This information was derived from information prepared by the investment advisor, however, the percentages we have listed above are approximate and may not match the information available on the investment advisor's website due to subsequent corporate actions or other activity relating to a particular stock. For more details about the iShares® MSCI Emerging Markets ETF, the investment advisor and license agreement between the investment advisor and the issuer, see “The Underliers — The iShares® MSCI Emerging Markets ETF” on page S-90 of the accompanying general terms supplement no. 1,734.

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Table of Contents

The MSCI Indexes are the exclusive property of MSCI Inc. ("MSCI"). The securities referred to herein are not sponsored, endorsed, or promoted by MSCI, and MSCI bears no liability with respect to any such securities.

Historical Closing Levels of the Basket Underliers

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

You should not take the historical levels of the basket or the basket underliers as an indication of the future performances of the basket underliers. We cannot give you any assurance that the future performance of the basket, basket underliers or the basket underlier stocks will result in your receiving an amount greater than the outstanding face amount of your notes on the stated maturity date.

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

The graphs below show the daily historical closing levels of each basket underlier from October 29, 2008 through October 29, 2018. We obtained the closing levels in the graphs below from Bloomberg Financial Services, without independent verification.

Historical Performance of the S&P 500<sup>®</sup> Index

PS-35

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Table of Contents

Historical Performance of the EURO STOXX 50® Index

Historical Performance of the NASDAQ-100 Index®

Historical Performance of the iShares® MSCI Emerging Markets ETF

PS-36

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Table of Contents

Historical Basket Levels

The following graph is based on the basket closing level for the period from October 29, 2008 through October 29, 2018 assuming that the basket closing level was 100 on October 29, 2008. We derived the basket closing levels based on the method to calculate the basket closing level as described in this pricing supplement and on actual closing levels of the relevant basket underliers on the relevant date. The basket closing level has been normalized such that its hypothetical level on October 29, 2008 was 100. As noted in this pricing supplement, the initial basket level will be set at 100 on the trade date. The basket closing level can increase or decrease due to changes in the levels of the basket underliers.

Historical Performance of the Basket

PS-37

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Table of Contents

We have not authorized anyone to provide any information or to make any representations other than those contained or incorporated by reference in this pricing supplement, the accompanying product supplement no. 1,738, the accompanying general terms supplement no. 1,734, the accompanying prospectus supplement or the accompanying prospectus. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. This pricing supplement, the accompanying product supplement no. 1,738, the accompanying general terms supplement no. 1,734, the accompanying prospectus supplement and the accompanying prospectus is an offer to sell only the notes offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so. The information contained in this pricing supplement, the accompanying product supplement no. 1,738, the accompanying general terms supplement no. 1,734, the accompanying prospectus supplement and the accompanying prospectus is current only as of the respective dates of such documents.

## TABLE OF CONTENTS

## Pricing Supplement

<u>Summary Information</u>	PS-2
<u>Hypothetical Examples</u>	PS-6
<u>Additional Risk Factors Specific to Your Notes</u>	PS-13
<u>The Basket and the Basket Underliers</u>	PS-22

## Product Supplement No. 1,738 dated July 10, 2017

Summary Information	S-1
Hypothetical Returns on the Underlier-Linked Notes	S-10
Additional Risk Factors Specific to the Underlier-Linked Notes	S-30
General Terms of the Underlier-Linked Notes	S-35
Use of Proceeds	S-40
Hedging	S-40
Supplemental Discussion of Federal Income Tax Consequences	S-41
Employee Retirement Income Security Act	S-48
Supplemental Plan of Distribution	S-49
Conflicts of Interest	S-52

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

Additional Risk Factors Specific to the Notes	S-1
Supplemental Terms of the Notes	S-16
The Underliers	S-36
S&P 500 <sup>®</sup> Index	S-40
MSCI Indices	S-46
Hang Seng China Enterprises Index	S-55
Russell 2000 <sup>®</sup> Index	S-61
FTSE <sup>®</sup> 100 Index	S-69
EURO STOXX 50 <sup>®</sup> Index	S-75
TOPIX	S-82
The Dow Jones Industrial Average <sup>®</sup>	S-87
The iShares <sup>®</sup> MSCI Emerging Markets ETF	S-91
Use of Proceeds	S-94
Hedging	S-94
Employee Retirement Income Security Act	S-95

Supplemental Plan of Distribution	S-96
Conflicts of Interest	S-98

Prospectus Supplement dated July 10, 2017

Use of Proceeds	S-2
Description of Notes We May Offer	S-3
Considerations Relating to Indexed Notes	S-15
United States Taxation	S-18
Employee Retirement Income Security Act	S-19
Supplemental Plan of Distribution	S-20
Validity of the Notes and Guarantees	S-21

Prospectus dated July 10, 2017

Available Information	2
Prospectus Summary	4
Risks Relating to Regulatory Resolution Strategies and Long-Term Debt Requirements	8
Use of Proceeds	11
Description of Debt Securities We May Offer	12
Description of Warrants We May Offer	45
Description of Units We May Offer	60
GS Finance Corp	65
Legal Ownership and Book-Entry Issuance	67
Considerations Relating to Floating Rate Debt Securities	72
Considerations Relating to Indexed Securities	73
Considerations Relating to Securities Denominated or Payable in or Linked to a Non-U.S. Dollar Currency	74
United States Taxation	77
Plan of Distribution	92
Conflicts of Interest	94
Employee Retirement Income Security Act	95
Validity of the Securities and Guarantees	95
Experts	96
Review of Unaudited Condensed Consolidated Financial Statements by Independent Registered Public Accounting Firm	96
Cautionary Statement Pursuant to the Private Securities Litigation Reform Act of 1995	96

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GS Finance Corp.  
Leveraged Buffered Basket-Linked Notes due  
guaranteed by  
The Goldman Sachs  
Group, Inc.

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Goldman Sachs & Co. LLC

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