



The Goldman Sachs Group, Inc. Euro Medium-Term Notes, Series H

TERMS OF SALE

References to the notes refer to the Series H euro medium-term notes. The following terms may apply to the notes that The Goldman Sachs Group, Inc. may sell from time to time. The specific terms of each note will be included in the pricing supplement relating to that note.

- stated maturity of up to 40 years from the date of issue
- fixed or floating interest rate, or issued with original issue discount
- amount of principal or interest may be determined by reference to one or more underlying indices, securities, currencies or other rates, measures or instruments
- may be subject to redemption at the option of The Goldman Sachs Group, Inc. or repayment at the option of the holder
- may be amortized or subject to a sinking fund
- may be convertible, exercisable or exchangeable, at our option or the holder's option, into or for securities of one or more issuers other than The Goldman Sachs Group, Inc.
- may be denominated in U.S. dollars or in other currencies, currency units or composite currencies and payable in the denominated or other currencies
- settlement in immediately available funds

The notes will not be secured by any of our property or assets and will not be subordinated to any of our other debt obligations.

Any of the terms described above may be varied in the applicable pricing supplement.

The Goldman Sachs Group, Inc. may offer and sell these notes to or through one or more underwriters, dealers and agents, including Goldman Sachs International, or directly to purchasers, on a continuous or delayed basis.

This offering circular constitutes a prospectus for the purposes of Part IV of Luxembourg Law dated July 10, 2005 on Prospectuses for Securities, as amended. It may be used only for the purposes for which it has been published. This offering circular is dated June 4, 2019 and supersedes and replaces the offering circular dated June 5, 2018. This offering circular may not be used for the purpose of listing the notes on the Official List of the Luxembourg Stock Exchange and to trading on the Euro MTF Market after June 4, 2020.

Subject to certain exceptions, the notes may not be offered, sold or delivered, directly or indirectly, in the United States of America or to U.S. persons. See "Plan of Distribution". **The notes have not been and will not be registered under the United States Securities Act of 1933, as amended, or under the securities or blue sky laws of any state. Neither the U.S. Securities and Exchange Commission nor any other regulatory body has approved or disapproved of the notes or passed upon the accuracy or inaccuracy of this offering circular. This offering circular is not for use in, and may not be delivered to or inside, the United States.**

For a description of certain other restrictions on offers, sales and deliveries of the notes and the distribution of offering material in certain jurisdictions, see "Plan of Distribution" and the applicable pricing supplement.

The notes we may issue 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.

The Goldman Sachs Group, Inc. may use this offering circular in the initial sale of any note. In addition, Goldman Sachs International or any other affiliate of The Goldman Sachs Group, Inc. may use this offering circular in a market-making transaction in any note after its initial sale. ***Unless The Goldman Sachs Group, Inc. or its agent informs the purchaser otherwise in the confirmation of sale, this offering circular is being used in a market-making transaction.***

If the notes are stated in the applicable pricing supplement to be issued under the new safekeeping structure ("NSS"), then we will deliver these notes to a common safekeeper for Euroclear Bank SA/NV ("Euroclear") and Clearstream Banking, *société anonyme* ("Clearstream, Luxembourg"). Global notes which are not issued under NSS will be deposited with a common depository for Euroclear and Clearstream, Luxembourg.

Application has been made to the Luxembourg Stock Exchange for notes issued under the Series H euro medium-term notes program to be listed on the Official List of the Luxembourg Stock Exchange and admitted to trading on the Luxembourg Stock Exchange's Euro MTF market (the "Euro MTF"). The Euro MTF is not a regulated market for the purposes of Directive 2004/39/EC. The relevant Pricing Supplement will specify whether the applicable notes are to be listed or will be unlisted. The Goldman Sachs Group, Inc. is under no obligation to maintain the listing of any notes that are listed. See "Listing and General Information".

See "Risk Factors" beginning on p. 11 for a discussion of certain risks that should be considered in connection with an investment in certain types of notes which may be offered hereby.

Goldman Sachs International

Offering Circular, dated June 4, 2019

Unless the context otherwise requires, references in this offering circular to “The Goldman Sachs Group, Inc.”, “we”, “our” and “us” mean only The Goldman Sachs Group, Inc. and do not include its consolidated subsidiaries. References to “Goldman Sachs” and the “Goldman Sachs Group” refer to The Goldman Sachs Group, Inc. together with its consolidated subsidiaries. Also, when we refer to “holders” we mean those who own notes registered in their own names, on the books that we or our agents maintain for this purpose; “holders” does not refer to those who own beneficial interests in notes registered in street name or in notes issued in global — *i.e.*, book-entry — form through Euroclear SA/NV, Clearstream Banking, *société anonyme*, or another depositary. Prospective owners of beneficial interests in the notes issued in global form should read the section entitled “Description of the Program — Form, Exchange, Registration and Transfer” below.

We have not authorized anyone to provide any information or to make any representations other than those contained or incorporated by reference in this offering circular. Neither this offering circular nor any pricing supplement constitutes an offer to sell or the solicitation of an offer to buy any securities in any jurisdiction where, or to any person to whom, it is unlawful to make such offer or solicitation in that jurisdiction. Neither the delivery of this offering circular, any pricing supplement nor any sale made pursuant to those documents, shall, under any circumstances, create any implication that there has been no change in the affairs of The Goldman Sachs Group, Inc. since the date of the document or that the information contained within the documents is correct as of any time subsequent to its date.

Responsibility Statement

The Goldman Sachs Group, Inc. accepts responsibility for the information contained in this offering circular. To the best of the knowledge and belief of The Goldman Sachs Group, Inc. (which has taken all reasonable care to ensure that such is the case), the information contained in this offering circular is in accordance with the facts and contains no omission likely to affect the import of such information. Where information contained in this offering circular has been sourced from a third party, such information has been accurately reproduced and so far as The Goldman Sachs Group, Inc. is aware and is able to ascertain from information published by that third party, no facts have been omitted which would render the reproduced information inaccurate or misleading.

Any insurance company or fiduciary of a pension plan or other employee benefit plan that is subject to the prohibited transactions rules of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”), or the Internal Revenue Code of 1986, as amended (“the Code”), including an IRA or a Keogh plan (or a governmental plan to which similar prohibitions apply), and that is considering purchasing the notes with the assets of the insurance company or the assets of the plan, should consult with its counsel regarding whether the purchase or holding of the notes could become a “prohibited transaction” under ERISA, the Code or any substantially similar prohibition in light of the representations a purchaser or holder in any of the above categories is deemed to make by purchasing and holding the notes. This is discussed in more detail under “Employee Retirement Income Security Act” below.

IMPORTANT – PROHIBITION OF SALES TO EEA RETAIL INVESTORS

If the pricing supplement in respect of any notes includes a legend entitled “Prohibition of Sales to EEA Retail Investors”, the notes are not intended to be offered, sold or otherwise made

available to and, with effect from such date, should not be offered, sold or otherwise made available to any retail investor in the European Economic Area (“EEA”). For these purposes, a retail investor means a person who is one (or more) of: (i) a retail client as defined in point (11) of Article 4(1) of MiFID II; (ii) a customer within the meaning of Directive (EU) 2016/97 (as amended, the “Insurance Distribution Directive”), where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or (iii) not a qualified investor as defined in the Prospectus Directive. Consequently no key information document required by Regulation (EU) No 1286/2014 (as amended, the “PRIIPs Regulation”) for offering or selling the notes or otherwise making them available to retail investors in the EEA has been prepared and therefore offering or selling the notes or otherwise making them available to any retail investor in the EEA may be unlawful under the PRIIPs Regulation.

Notwithstanding the foregoing paragraph, if the pricing supplement in respect of the notes includes a legend entitled “Prohibition of Sales to EEA Retail Investors” but the Issuer subsequently prepares and publishes a key information document under the PRIIPs Regulation in respect of such notes, then, following such publication, the prohibition on the offering, sale or otherwise making available of the notes to retail investors as described in the above paragraph and in such legend shall no longer apply.

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SUMMARY OF THE OFFERING CIRCULAR

The following is a summary of the offering circular and the Series H euro medium-term notes program of The Goldman Sachs Group, Inc. and should be read as an introduction to, and in conjunction with, the remainder of the offering circular, including any documents incorporated by reference therein, and the applicable pricing supplement, and you should base your investment decision on a consideration of the offering circular, including any documents incorporated by reference therein, and the applicable pricing supplement as a whole. No civil liability attaches to us in respect of this summary, including any translation thereof, unless it is misleading, inaccurate or inconsistent when read together with the remainder of the offering circular, including any documents incorporated by reference therein, and the applicable pricing supplement.

The summary is qualified in its entirety by the remainder of this offering circular, including any documents incorporated by reference therein, and the applicable pricing supplement. If there are any differences between your pricing supplement and this offering circular, your pricing supplement will control with regard to your note.

Issuer

The Goldman Sachs Group, Inc.

Description of issuer

The Goldman Sachs Group, Inc. is a leading global investment banking, securities and investment management firm that provides a wide range of financial services to a substantial and diversified client base that includes corporations, financial institutions, governments and individuals. Founded in 1869, the firm is headquartered in New York and maintains offices in all major financial centers around the world. We filed our original certificate of incorporation with the Secretary of State of the State of Delaware on July 21, 1998. Our headquarters are located at 200 West Street, New York, NY 10282, U.S.A., telephone +1 (212) 902-1000. The Goldman Sachs Group, Inc. is a bank holding company and a financial holding company regulated by the Board of Governors of the Federal Reserve System (the "Federal Reserve Board"). Its U.S. depository institution subsidiary, Goldman Sachs Bank USA, is a New York State-chartered bank. The Goldman Sachs Group, Inc. is the parent holding company of the Goldman Sachs Group.

The Goldman Sachs Group's activities are conducted in the following segments:

(1) Investment Banking:

- Financial Advisory, which includes strategic advisory assignments with respect to mergers and acquisitions, divestitures, corporate defense activities, restructurings and spin-offs, risk management, and derivative transactions directly related to these client advisory assignments; and
- Underwriting, which includes public offerings and private placements, including local and cross-border transactions and acquisition finance, of a wide range of securities, loans and other financial instruments, and derivative transactions directly related to these client underwriting activities.

(2) Institutional Client Services:

- Fixed Income, Currency and Commodities, which includes client execution activities related to making markets in both

cash and derivative instruments for interest rate products, credit products, mortgages, currencies and commodities; and

- Equities, which includes client execution activities related to making markets in equity products and commissions and fees from executing and clearing institutional client transactions on major stock, options and futures exchanges worldwide, as well as over-the-counter transactions. Equities also includes our securities services business, which provides financing, securities lending and other prime brokerage services to institutional clients, including hedge funds, mutual funds, pension funds and foundations, and generates revenues primarily in the form of interest rate spreads or fees.

(3) **Investing & Lending**, which includes The Goldman Sachs Group's investing activities and the origination of loans, including its lending activities, to provide financing to clients. These investments, some of which are consolidated, and loans are typically longer-term in nature. The Goldman Sachs Group makes investments, some of which are consolidated, directly through its Merchant Banking business and Special Situations Group and indirectly through funds that it manages, in debt securities and loans, public and private equity securities, infrastructure and real estate entities. The Goldman Sachs Group also makes unsecured loans through our digital platform

(4) **Investment Management**, which provides investment management services and offers investment products (primarily through separately managed accounts and commingled vehicles, such as mutual funds and private investment funds) across all major asset classes to a diverse set of institutional and individual clients. Investment Management also offers wealth advisory services, including portfolio management and financial counseling, and brokerage and other transaction services to high-net-worth individuals and families.

Dealers

We may offer and sell the notes to or through one or more dealers or directly to purchasers on a continuous or delayed basis.

Dealers include Goldman Sachs International and any other dealers we may, from time to time, appoint.

Fiscal agent

The Bank of New York Mellon.

Paying agent

We have initially appointed as paying agent The Bank of New York Mellon. We may at any time terminate the appointment of any paying agent and appoint additional or other paying agents.

Calculation agent

We have initially appointed Goldman Sachs International as calculation agent. We may at any time, without your consent and without notifying you, terminate the appointment of any calculation agent and appoint additional calculation agents.

Use of proceeds

We intend to use the net proceeds from the sale of the notes to provide additional funds for our operations and for other general corporate

purposes.

Issuance in series

Each of the Series H euro medium-term notes constitute a single, distinct series of notes. We may from time to time issue additional series, which may have different terms.

Currencies

Notes will be denominated in U.S. dollars or other currencies, as specified in the applicable pricing supplement.

Form of notes

We will issue notes as global notes in registered form. If it is stated in the applicable pricing supplement that the notes are to be issued under NSS, the notes will be registered in the name of a nominee for a common safekeeper for Euroclear and Clearstream, Luxembourg, and we will deliver these notes to a common safekeeper for Euroclear and Clearstream, Luxembourg, which is necessary for notes to be eligible collateral for Eurosystem monetary policy, but does not necessarily mean that the notes will then be recognised as eligible collateral for Eurosystem monetary policy and intra-day credit operations by the Eurosystem at any time during their life.

Global notes in registered form which are not issued under NSS will be deposited with, and registered in the name of a nominee of, a common depositary for Euroclear and Clearstream, Luxembourg or other clearing system as specified in the applicable pricing supplement.

Types of notes

We may issue fixed rate notes, floating rate notes and indexed notes, including combinations thereof. A note may provide for either cash settlement or physical settlement. Some notes may be convertible, exercisable or exchangeable into or for securities of an issuer other than The Goldman Sachs Group, Inc.

Stated Maturity

In general, notes will have a stated maturity of up to 40 years from the date of issue.

Interest-bearing notes

Notes may bear interest at a fixed or floating rate. Fixed rate notes include zero coupon notes, and other discount securities, which are issued at a price lower than the face amount.

Floating rate notes bear interest at rates based on one or more of the base rates specified in the offering circular or the applicable pricing supplement.

A base rate may be adjusted by adding or subtracting a specified number of basis points or multiplying it by a specified percentage and may be subject to a minimum rate or a maximum rate, as specified in the applicable pricing supplement.

Indexed notes

Notes may provide that amounts payable on the notes will be determined by reference to one or more indices, to securities of one or more issuers, currencies, one or more credit events, or any other financial, economic or other measure or instrument.

Sinking fund	Unless otherwise indicated in the applicable pricing supplement, the notes will not be entitled to the benefit of a sinking fund.
Redemption at our option	Unless otherwise specified in the applicable pricing supplement, we will not be entitled to redeem the notes before maturity, provided that we may be able to redeem the notes in the event of certain developments involving changes in law, as described below, and, if the applicable pricing supplement provide for the gross-up of any payments due on the notes, we may redeem the notes in the event of changes involving U.S. withholding taxes.
Repayment at your option	You will not be entitled to require us to buy your note from you before maturity, unless otherwise specified in the applicable pricing supplement.
Payment of additional amounts	Unless otherwise specified in the applicable pricing supplement, we will make all payments on the notes without deducting U.S. withholding taxes, unless we are required by law to do so and, if we are required by law to deduct U.S. withholding taxes, we will not pay additional amounts on those payments unless the applicable pricing supplement provide for the gross-up of any payments due on the notes and only under certain circumstances as described below under “Description of the Program — Payment of Additional Amounts.”
Adjustment or redemption upon change in law	If the calculation agent determines that, as a result of a change in law (including a change in interpretation by a relevant authority) (i) the performance by us or our affiliates under the notes and/or any related hedge positions has become unlawful or impractical in whole or in part for any reason or (ii) the performance under the notes will result in materially increased costs to us and/or any of our affiliates, then the calculation agent may determine an adjustment, if any, to be made to any one or more of the terms of the notes as the calculation agent determines appropriate to account for the change in law or, unless the applicable pricing supplement specifies otherwise, we may redeem, as a whole but not in part, any outstanding issuance of notes. We may also take such action if the calculation agent determines that the performance by one of our affiliates under the notes and/or any related hedge positions, assuming such affiliate had been the issuer of the notes or party to any such hedging arrangement, would be unlawful or impractical.
Mergers and similar transactions	We will not merge or consolidate with another corporation or corporate entity, unless certain conditions are met.
Defeasance and covenant defeasance	Unless otherwise specified in the applicable pricing supplement, if there is a change in U.S. federal tax law, we will be entitled, in the case of all fixed rate notes payable in U.S. dollars which do not include the provisions described below under “Description of the Program — Payment of Additional Amounts,” to release ourselves from all obligations under the notes, subject to certain conditions. Moreover, unless otherwise specified in the applicable pricing supplement, we will be entitled, in the case of all fixed rate notes payable in U.S. dollars, to release ourselves from any restrictive

	covenants relating to the notes, subject to similar conditions as those referred to above.
Events of default and remedies	Unless otherwise specified in the applicable pricing supplement, if an event of default occurs and is continuing, with respect to your note you may, after giving effect to any applicable grace period, by written notice to us and the fiscal agent, declare the principal of your note to be immediately due and payable.
Meetings, modification and waiver of covenants	The fiscal agency agreement contains provisions for convening meetings of holders to consider matters affecting their interests. Certain changes require each affected holder's approval, others require no approval by holders and still others require the approval of two-thirds of the holders.
Payment mechanics for notes	Unless otherwise specified in the applicable pricing supplement, all payments on notes will be made in the applicable specified currency, subject to certain exceptions. We will make payments on a global note in accordance with the applicable policies of the relevant clearing systems which, unless specified in the applicable pricing supplement will be Euroclear and Clearstream, Luxembourg. We will make payments on a note in registered non-global form by paying interest due on an interest payment date to the holder at the address shown on the register for such notes as of the close of business on the regular record date and all other payments by check or via wire transfer at the corporate trust office of the fiscal agent and the office of the paying agent, against surrender of the note.
Governing law	New York.
Listing and admission to trading	Application has been made to the Luxembourg Stock Exchange for notes issued under the Series H euro medium-term notes program to be listed on the Official List of the Luxembourg Stock Exchange and admitted to trading on the Euro MTF. The Euro MTF is not a regulated market for the purposes of Directive 2004/39/EC. The notes may also be listed on any other stock exchange or may be unlisted. The relevant Pricing Supplement will specify whether the applicable notes are to be listed or will be unlisted. The Goldman Sachs Group, Inc. is under no obligation to maintain the listing of any notes that are listed.
Clearing systems	Unless otherwise specified in the applicable pricing supplement, Euroclear and Clearstream, Luxembourg.
Market-making	This offering circular may be used by Goldman Sachs International in connection with offers and sales of the notes in market-making transactions.

Status of notes under the U.S. securities laws

The notes are not, and will not be, registered under the U.S. Securities Act of 1933 and may not be offered or sold within the United States or to, or for the account or benefit of, U.S. persons except in transactions exempt from the registration requirements.

Selling restrictions

For a description of certain restrictions on offers, sales and deliveries of the notes and the distribution of offering material in certain jurisdictions, see “Plan of Distribution” and the applicable pricing supplement.

Risk factors

We face a variety of risks, including market, credit, liquidity, operational, legal and regulatory risks. In addition, the notes are subject to a number of risks, including those related to credit market conditions, interest rate levels, our credit rating, global market conditions, certain tax-related risks as well as the risk that the notes may not have an active trading market. Indexed notes and notes denominated or payable in or linked to foreign currencies are subject to additional risks, including that you may lose all or a portion of the principal invested and may receive no interest, the volatility of the indices or currencies, and that we may engage in business activities that are adverse to your interests.

For more information see “Risk Factors” on page 11 and the applicable pricing supplement. You should understand these risks before making any investment decision.

RISK FACTORS

Risk Factors in Relation to the Issuer

For a discussion of certain factors affecting our business, see “Risk Factors” in Part I, Item 1A of our Annual Report on Form 10-K for the fiscal year ended December 31, 2018 (pp. 22-43), which is incorporated by reference into this offering circular, or the corresponding section of any future Annual Report on Form 10-K or Quarterly Report on Form 10-Q filed by us, which are automatically incorporated by reference into this offering circular. We also may disclose additional risks relevant to your particular note in the applicable pricing supplement.

Risk Factors in Relation to the Notes

The Notes We May Issue Are Not Insured by the Federal Deposit Insurance Corporation

None of the notes offered hereby will be a deposit insured or guaranteed by the Federal Deposit Insurance Corporation (“FDIC”) or any other government authority. The Series H euro medium-term notes will rank *pari passu* with all other unsecured and unsubordinated indebtedness of The Goldman Sachs Group, Inc.

Any Notes We May Issue May Not Have an Active Trading Market

Even if your notes are listed on a stock exchange, a secondary market for any notes we may issue is unlikely to develop. Even if a secondary market for a note develops, it may not provide significant liquidity and we and/or our affiliates have no obligation to make a market with respect to the note and make no commitment to make a market in or repurchase the note. We expect that transaction costs in any secondary market would be high. As a result, the difference between bid and asked prices for the note in any secondary market could be substantial. There may be less liquidity in the secondary market for the notes if they are exclusively offered to retail investors without any offer to institutional investors.

Changes in Interest Rates Are Likely to Affect the Market Price of Any Notes We May Issue

We expect that the market price of any notes we may issue will be affected by changes in interest rates, although these changes may affect such notes and a traditional debt security to different degrees. In general, if interest rates increase, we expect that the market value of a fixed income instrument which paid interest payments and an amount equal to the outstanding face amount of a note you may purchase on the same schedule as that note would decrease, whereas if interest rates decrease, we expect that the market value of such a fixed income instrument would increase.

The Market Price of Any Notes We May Issue May Be Influenced by Many Unpredictable Factors and If You Buy a Note and Sell It Prior to the Stated Maturity Date, You May Receive Less Than the Face Amount of Your Note

The following factors, most of which are beyond our control, will influence the market price of any notes we may issue:

- economic, military, financial, regulatory, political, terrorist and other events that affect securities generally;
- interest and yield rates in the market;
- the time remaining until a note matures;
- our creditworthiness, whether actual or perceived, and including actual or anticipated upgrades or downgrades in our credit ratings or changes in other credit measures; and

- in the case of an indexed note, the market price of the relevant index or indices or, if applicable, index components, and the volatility — *i.e.*, the frequency and magnitude of changes in the market price of the relevant index or, if applicable, index components.

As a result of these and other factors, if you buy a note and sell it prior to maturity, you may receive less than the outstanding face amount of your note. Moreover, these factors interrelate in complex ways, and the effect of one factor may offset or enhance the effect of another factor.

The issue price and/or offer price of the notes may include subscription fees, placement fees, direction fees, structuring fees and/or other additional costs. Any such fees and costs may not be taken into account for the purposes of determining the price of such notes on the secondary market and could result in a difference between the original issue price and/or offer price, the theoretical value of the notes, and/or the actual bid/offer price quoted by any intermediary in the secondary market. Any such difference may have an adverse effect on the value of the notes, particularly immediately following the offer and the issue date relating to such notes, where any such fees and/or costs may be deducted from the price at which such notes can be sold by the initial investor in the secondary market.

Changes in Our Credit Ratings May Affect the Market Price of a Note

Our credit ratings are an assessment of our ability to pay our obligations, including those on any notes we may issue. Consequently, actual or anticipated changes in our credit ratings may affect the market price of a note. However, because the return on a note is typically dependent upon certain factors in addition to our ability to pay our obligations on the note, an improvement in our credit ratings will not reduce the other investment risks related to any such notes.

The following table sets forth our unsecured corporate credit ratings as of the date of this offering circular:

	Short-Term Debt	Long-Term Debt	Subordinated Debt	Preferred Stock
Dominion Bond Rating Service Limited.....	R-1 (middle)	A (high)	A	BBB (high)
Fitch, Inc.....	F1	A	A-	BB+
Moody's Investors Service	P-2	A3	Baa2	Ba1
Standard & Poor's	A-2	BBB+	BBB-	BB
Rating and Investment Information, Inc. ⁵⁾	a-1	A	A-	N/A

A rating is not a recommendation to buy, sell or hold any of our securities. Any or all of these ratings are subject to revision or withdrawal at any time by the assigning rating organization. Each rating should be evaluated independently of any other rating.

The specific meaning of each of the credit ratings is set out by the relevant credit ratings agency in the applicable web site, as follows: for Dominion Bond Rating Service Limited, see <https://www.dbrs.com/understanding-ratings/#about-ratings>; for Fitch, Inc., see <https://www.fitchratings.com/site/definitions>; for Moody's Investors Service, see http://www.moody.com/researchdocumentcontentpage.aspx?docid=PBC_79004; for Standard & Poor's, see https://www.standardandpoors.com/en_US/web/guest/article/-/view/sourcelId/504352 and for Rating and Investment Information, Inc., see <http://www.r-i.co.jp/eng/cfp/about/definition.html>.

We Cannot Advise You of the Non-U.S. Tax Consequences of Owning or Trading Any Notes We May Issue

Because you are a U.S. alien holder, you should consult your own legal and tax advisors with respect to the tax characterization of any notes we may issue in your taxing jurisdiction. For a summary of the principal U.S. federal income and estate tax consequences of notes to a U.S. alien holder, see "United States Taxation" below.

Unless Otherwise Specified in the Applicable Pricing Supplement, We Will Not Compensate Holders If We Have to Deduct Taxes from Payments on Any Notes We May Issue

With certain exceptions, as of the date of this offering circular, payments on any notes we may issue are not subject to U.S. federal withholding or other tax provided that the holder is a U.S. alien holder. Withholding from payments on a note may be required if a holder fails to provide a completed United States Internal Revenue Service Form W-8BEN or W-8BEN-E. See the section entitled “United States Taxation” below for more information.

Unless otherwise specified in the applicable pricing supplement, we will not gross up any payments due on the note to which the pricing supplement relates and we will not compensate holders for any amount that may be withheld or due because of any withholding tax. Accordingly, during the term of the note, whether or not due to a change in law, if any withholding or other tax, assessment or other governmental charge is imposed on payments on the note by the United States or any other jurisdiction or any political subdivision or taxing authority thereof or therein (including any payment upon redemption, repurchase or stated maturity of a note), and we are required to deduct that tax, charge or assessment from any payment we make on the note (including any payment upon redemption, repurchase or stated maturity of a note), we will make that payment only after making such deduction and will not pay holders any additional amounts to compensate them for the deduction.

Consequently, if you purchase a note in these circumstances and a deduction is required to be made, you will receive less than what you would otherwise have been entitled to receive as payment on your note on the stated maturity date. We cannot predict whether any such changes in law will occur during the term of any notes we may issue and, if they do occur, the amounts that may have to be deducted.

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.

Your notes could be subject to a U.S. withholding tax of 30% under a law (commonly known as “FATCA”) that was enacted in 2010. This tax could apply if you or any non-U.S. person or entity that receives a payment (directly or indirectly) on your behalf (including a bank, custodian, broker or other payee, at any point in the series of payments made on your notes) does not comply with the U.S. information reporting, withholding, identification, certification, and related requirements imposed by FATCA. The payments potentially subject to this withholding tax include interest (including original issue discount) and other periodic payments on the notes.

You should consult your own tax advisors regarding the relevant U.S. law and other official guidance on FATCA. You could be affected by this withholding if, for example, your bank or broker through which you hold the notes is subject to withholding because it fails to comply with these requirements. This might be the case even if you would not otherwise have been directly subject to withholding. Accordingly, you should consult your bank or broker about the likelihood that payments to it (for credit to you) will become subject to withholding in the payment chain.

We will not pay any additional amounts in respect of this withholding tax, so if this withholding applies, you will receive less than the amount that you would have otherwise received with respect to your notes. Depending on your circumstances, you may be entitled to a refund or credit in respect of some or all of this withholding. However, even if you are entitled to have any such withholding refunded, the required procedures could be cumbersome and significantly delay your receipt of any withheld amounts. For more information, see “United States Taxation – Foreign Account Tax Compliance Withholding (FATCA)”.

In addition, your notes may also be subject to other U.S. withholding tax as described in “United States Taxation”.

If We Redeem Your Notes or There Is an Adjustment upon a Change in Law, You May Receive Less than Your Initial Investment

If the calculation agent determines that (i) the performance by us and/or any of our affiliates under the notes and/or any related hedge positions has become unlawful or impractical in whole or in part for any reason or (ii) the performance under the notes will result in materially increased costs to us and/or any of our affiliates, then the calculation agent may determine an adjustment, if any, to be made to any one or more of the terms of the notes as the calculation agent determines appropriate to account for the change in law or, unless the applicable pricing supplement specifies otherwise, we may cancel such notes and, if permitted by applicable law, upon cancellation will pay the holder of such notes an amount equal to the non-scheduled early repayment amount of such notes, which will be determined by the calculation agent as described under “Description of the Program – Redemption and Repayment – Non-Scheduled Early Repayment Amount”. We may also take such action if the calculation agent determines that the performance by us or by one of our affiliates under the notes and/or any related hedge positions (assuming such affiliate had been the issuer of the notes or party to any such hedging arrangement) would be unlawful or impractical, or if, as a result of certain changes in the laws or regulations of any U.S. taxing authority, at any time on or after the applicable issue date or such other date as specified in the applicable pricing supplement, we are obligated to pay, on the next succeeding interest payment date or maturity date, additional amounts, as described under “Description of the Program – Redemption and Repayment – Payment of Additional Amounts” below, and that obligation cannot be avoided by the use of reasonable measures available to us.

The non-scheduled repayment amount may be less than the price at which you purchased your notes, the face amount of your notes or the market price you would have received for your notes if the change in law had not occurred and you sold your notes in the market on the non-scheduled early redemption date. Furthermore, you may not be able to reinvest the redemption proceeds at any effective interest rate as high as the interest rate or yield on the notes being redeemed. You should consider reinvestment risk in light of other investments available at that time. For more information, see “Description of the Program – Redemption and Repayment – Redemption Upon Change in Law”.

Unless the applicable pricing supplement specifies otherwise, the calculation agent will have significant discretion in determining the non-scheduled early repayment amount for indexed notes. The calculation agent may take into account such factors as it considers to be appropriate including, without limitation, our internal pricing models. Furthermore, the calculation agent may, in its reasonable discretion, adjust the amount payable to account for any reasonable expenses and costs of (or benefit to) us and/or our affiliates relating to the early redemption of the notes, including those relating to the unwinding of any underlying and/or related hedging arrangements and the hypothetical cost or benefit of replacing the amount of the funding provided by the notes at a reasonably equivalent maturity and ranking.

Unless stated otherwise in the applicable pricing supplement, the calculation agent in respect of the notes is Goldman Sachs International, which may be presented with a conflict of interest of the kind described below under “– Considerations Relating to the Role of The Goldman Sachs Group, Inc. and its Affiliates – As Calculation Agent, Goldman Sachs International Will Have the Authority to Make Determinations That Could Affect the Market Price of an Indexed Note, When the Note Matures and the Amount Payable at Maturity” in connection with the determination of the non-scheduled early repayment amount.

In addition, the calculation agent may make an adjustment to the terms of your note if a change in law has occurred as described under “Description of the Program – Features Common to All Notes – Change in Law”. The adjustments may result in the amount payable at maturity being reduced to or being valued at an amount less than your initial investment.

If Your Pricing Supplement Specifies That We Have the Right to Redeem Your Note at Our Option, the Value of Your Notes May Be Adversely Affected.

Your pricing supplement may specify that we have the right to redeem your note at our option. Even if we do not exercise this option, our ability to do so may adversely affect the value of your notes.

Considerations Relating to Regulatory Resolution Strategies and Long-Term Debt Requirements

The Application of Regulatory Resolution Strategies Could Create Greater Risk of Loss for Holders of Our Debt Securities in the Event of the Resolution of The Goldman Sachs Group, Inc.

Your ability to recover the full amount that would otherwise be payable on our debt securities in a proceeding under the U.S. Bankruptcy Code may be impaired by the exercise by the FDIC of its powers under the “orderly liquidation authority” under Title II of the Dodd-Frank Wall Street Reform and Consumer Protection Act (“Dodd-Frank Act”). In addition, the single point of entry strategy described below is intended to impose losses at the top-tier holding company level in the resolution of a global systemically important bank (“G-SIB”) such as The Goldman Sachs Group, Inc.

Title II of the Dodd-Frank Act created a new resolution regime known as the “orderly liquidation authority” to which financial companies, including bank holding companies such as The Goldman Sachs Group, Inc., can be subjected. Under the orderly liquidation authority, the FDIC may be appointed as receiver for a financial company for purposes of liquidating the entity if, upon the recommendation of applicable regulators, the Secretary of the Treasury determines, among other things, that the entity is in severe financial distress, that the entity’s failure would have serious adverse effects on the U.S. financial system and that resolution under the orderly liquidation authority would avoid or mitigate those effects. Absent such determinations, The Goldman Sachs Group, Inc., as a U.S. bank holding company, would remain subject to the U.S. Bankruptcy Code.

If the FDIC is appointed as receiver under the orderly liquidation authority, then the orderly liquidation authority, rather than the U.S. Bankruptcy Code, would determine the powers of the receiver and the rights and obligations of creditors and other parties who have transacted with The Goldman Sachs Group, Inc. There are substantial differences between the rights available to creditors in the orderly liquidation authority and in the U.S. Bankruptcy Code, including the right of the FDIC under the orderly liquidation authority to disregard the strict priority of creditor claims in some circumstances (which would otherwise be respected by a bankruptcy court) and the use of an administrative claims procedure to determine creditors’ claims (as opposed to the judicial procedure utilized in bankruptcy proceedings). In certain circumstances under the orderly liquidation authority, the FDIC could elevate the priority of claims that it determines necessary to facilitate a smooth and orderly liquidation without the need to obtain creditors’ consent or prior court review. In addition, the FDIC has the right to transfer claims to a third party or “bridge” entity under the orderly liquidation authority. The FDIC has announced that a single point of entry strategy may be a desirable strategy to resolve a large financial institution such as The Goldman Sachs Group, Inc. in a manner that would, among other things, impose losses on shareholders, debt holders (including, in our case, holders of our debt securities) and other creditors of the top-tier holding company (in our case, The Goldman Sachs Group, Inc.), while permitting the holding company’s subsidiaries to continue to operate. In addition, the Board of Governors of the Federal Reserve System (the “Federal Reserve Board”) has adopted requirements that U.S. G-SIBs, including The Goldman Sachs Group, Inc., maintain minimum amounts of long-term debt and total loss-absorbing capacity to facilitate the application of the single point of entry resolution strategy. It is possible that the application of the single point of entry strategy under the orderly liquidation authority—in which The Goldman Sachs Group, Inc. would be the only legal entity to enter resolution proceedings—would result in greater losses to holders of our debt securities (including holders of our fixed rate, floating rate and indexed debt securities), than the losses that would result from the application of a bankruptcy proceeding or a different resolution strategy, such as a multiple point of entry resolution strategy for The Goldman Sachs Group, Inc. and certain of our material subsidiaries. Assuming The Goldman Sachs Group, Inc. entered resolution proceedings and that

support from The Goldman Sachs Group, Inc. to our subsidiaries was sufficient to enable the subsidiaries to remain solvent, losses at the subsidiary level would be transferred to The Goldman Sachs Group, Inc. and ultimately borne by The Goldman Sachs Group, Inc.'s security holders, third-party creditors of The Goldman Sachs Group, Inc.'s subsidiaries would receive full recoveries on their claims, and The Goldman Sachs Group, Inc.'s security holders (including holders of our debt securities and other unsecured creditors) could face significant losses. In that case, our security holders would face losses while the third-party creditors of our subsidiaries would incur no losses because the subsidiaries would continue to operate and would not enter resolution or bankruptcy proceedings. In addition, holders of our eligible LTD (defined below) and holders of our other debt securities could face losses ahead of our other similarly situated creditors in a resolution under the orderly liquidation authority if the FDIC exercised its right, described above, to disregard the strict priority of creditor claims.

The orderly liquidation authority also provides the FDIC with authority to cause creditors and shareholders of the financial company such as The Goldman Sachs Group, Inc. in receivership to bear losses before taxpayers are exposed to such losses, and amounts owed to the U.S. government would generally receive a statutory payment priority over the claims of private creditors, including senior creditors. In addition, under the orderly liquidation authority, claims of creditors (including holders of our debt securities) could be satisfied through the issuance of equity or other securities in a bridge entity to which The Goldman Sachs Group, Inc.'s assets are transferred. If such a securities-for-claims exchange were implemented, there can be no assurance that the value of the securities of the bridge entity would be sufficient to repay or satisfy all or any part of the creditor claims for which the securities were exchanged. While the FDIC has issued regulations to implement the orderly liquidation authority, not all aspects of how the FDIC might exercise this authority are known and additional rulemaking is likely.

The Application of The Goldman Sachs Group, Inc.'s Proposed Resolution Strategy Could Result in Greater Losses for Holders of Our Debt Securities.

As required by the Dodd-Frank Act and regulations issued by the Federal Reserve Board and the FDIC, The Goldman Sachs Group, Inc. is required to provide to the Federal Reserve Board and the FDIC a plan for its rapid and orderly resolution in the event of material financial distress affecting the firm or the failure of The Goldman Sachs Group, Inc. In our resolution plan, The Goldman Sachs Group, Inc. would be resolved under the U.S. Bankruptcy Code. In connection with the submission of The Goldman Sachs Group, Inc.'s 2017 resolution plan, which is a variant of the single point of entry strategy, we established intercompany arrangements with certain major subsidiaries to facilitate the implementation of our preferred resolution strategy, in which those subsidiaries would be recapitalized and receive liquidity, including through the forgiveness of intercompany loans, the extension of the maturities of intercompany loans and the making of additional intercompany loans.

To implement these arrangements, we have transferred a substantial portion of our Global Core Liquid Assets ("GCLA") and intercompany loans, and agreed to transfer periodically when exceeding certain thresholds additional GCLA and intercompany loans, to Goldman Sachs Funding LLC, a wholly owned direct subsidiary of The Goldman Sachs Group, Inc. ("Funding IHC"). Funding IHC is obligated to provide capital and liquidity support to certain major subsidiaries in the event of our material financial distress or failure. The Goldman Sachs Group, Inc. and Funding IHC's obligations are governed by a support agreement and secured pursuant to a related security agreement.

Under the support agreement, Funding IHC has provided The Goldman Sachs Group, Inc. with a committed line of credit that allows us to draw funds necessary to service our cash needs, and has also issued an unsecured subordinated funding note to The Goldman Sachs Group, Inc. in exchange for the transfers described above. Accordingly, we are expected to continue to have access to the funds necessary to service our debt, pay dividends, repurchase common stock, and satisfy our other obligations. If, however, our projected liquidity resources deteriorate so severely that resolution may be imminent, the committed line of credit will automatically terminate, the subordinated funding note will automatically be forgiven, all intercompany loans by The Goldman Sachs Group, Inc. to the major subsidiaries will be contributed to Funding IHC or their maturities will be extended to five years and we

will be obligated to transfer substantially all of our remaining intercompany receivables and GCLA (other than an amount to fund anticipated bankruptcy expenses) to Funding IHC. Such actions would materially and adversely affect our liquidity. As a result, during a period of severe stress, we might commence bankruptcy proceedings at an earlier time than it otherwise would if the support agreement and related intercompany arrangements had not been implemented.

If our preferred strategy were successful, creditors of some or all of The Goldman Sachs Group, Inc.'s major subsidiaries would receive full recoveries on their claims, while holders of our debt securities (including holders of our fixed rate, floating rate and indexed debt securities) could face significant losses. In that case, holders of our debt securities could face losses while the third-party creditors of our major subsidiaries would incur no losses because those subsidiaries would continue to operate and not enter resolution or bankruptcy proceedings. As part of the strategy, The Goldman Sachs Group, Inc. could also seek to elevate the priority of our guarantee obligations relating to our major subsidiaries' derivatives contracts so that cross-default and early termination rights would be stayed under the ISDA Resolution Stay Protocol, which would result in holders of our eligible LTD (defined below) and holders of our other debt securities incurring losses ahead of the beneficiaries of those guarantee obligations. It is also possible that holders of our eligible LTD and holders of our other debt securities could incur losses ahead of other similarly situated creditors. If our preferred resolution strategy were not successful, our financial condition would be adversely impacted and holders of our debt securities may as a consequence be in a worse position than if the strategy had not been implemented. In all cases, any payments to holders of our debt securities are dependent on our ability to make such payments and are therefore subject to our credit risk.

The Ultimate Impact of the Federal Reserve Board's Recently Adopted Rules Requiring U.S. G-SIBs to Maintain Minimum Amounts of Long-Term Debt Meeting Specified Eligibility Requirements Is Uncertain.

On December 15, 2016, the Federal Reserve Board adopted rules (the "TLAC Rules") that require the eight U.S. G-SIBs, including The Goldman Sachs Group, Inc., among other things, to maintain minimum amounts of long-term debt—i.e., debt having a maturity greater than one year from issuance—satisfying certain eligibility criteria ("eligible LTD"). The TLAC Rules disqualify from eligible LTD, among other instruments, senior debt securities that permit acceleration for reasons other than insolvency or payment default, as well as debt securities defined as structured notes in the TLAC Rules (e.g., many of our indexed debt securities) and debt securities not governed by U.S. law. In order to comply with the TLAC Rules, the terms of the notes provide that acceleration will only be permitted due to specified payment defaults and insolvency events, unless the applicable pricing supplement says otherwise. Senior debt securities issued prior to December 31, 2016 that would otherwise be ineligible because (i) they contain otherwise impermissible acceleration clauses or (ii) they are not governed by U.S. law are grandfathered by the TLAC Rules and are considered eligible LTD.

The Notes Will Provide Only Limited Acceleration and Enforcement Rights.

As discussed above, the TLAC Rules disqualify from eligible LTD, among other instruments, senior debt securities issued on or after December 31, 2016 that permit acceleration for reasons other than insolvency or payment default. As a result of the TLAC Rules, unless your pricing supplement says otherwise, the only events of default will be payment defaults that continue for a 30-day grace period and insolvency events as specified herein. Any other default under or breach of the notes will not give rise to an event of default, whether after notice, the passage of time or otherwise. As a consequence, if any such other default or breach occurs, holders of the notes will not be entitled to accelerate the maturity of any notes – that is, they will not be entitled to declare the principal of any notes to be immediately due and payable because of such other default or breach (other than any notes whose terms specify otherwise, as described in the applicable pricing supplement). These other defaults and breaches would include any breach of the covenant described below under "Description of the Program — Mergers and Similar Transactions".

The limitations on events of default, acceleration rights and other remedies described in the prior paragraph do not apply with regard to all senior debt securities issued by The Goldman Sachs Group, Inc., particularly certain securities issued prior to January 1, 2017. Therefore, if certain defaults or breaches occur, holders of such other debt securities may be able to accelerate their securities so that such securities become immediately due and payable while you may not be able to do so. In such an event, our obligation to repay the accelerated securities in full could adversely affect our ability to make timely payments on your notes thereafter. These limitations on your rights and remedies could adversely affect the market value of your securities, especially during times of financial stress for us or our industry.

Please see “Description of the Program — Events of Default and Remedies” below for an explanation of the term “event of default” and for information regarding acceleration rights and remedies.

Holders of Our Notes Could Be at Greater Risk for Being Structurally Subordinated If The Goldman Sachs Group, Inc. Sells or Transfers Its Assets Substantially as an Entirety to One or More of our Subsidiaries.

With respect to any notes, we may sell or transfer our assets substantially as an entirety, in one or more transactions, to one or more entities, provided that the assets of The Goldman Sachs Group, Inc. and our direct or indirect subsidiaries in which we own a majority of the combined voting power, taken together, are not sold or transferred substantially as an entirety to one or more entities that are not such subsidiaries. If we sell or transfer our assets substantially as an entirety to our subsidiaries, third-party creditors of our subsidiaries would have additional assets from which to recover on their claims while holders of our notes would be structurally subordinated to creditors of our subsidiaries with respect to such assets.

Considerations Relating to Floating Rate Notes

A Negative Floating Base Rate May Reduce Any Positive Spread Payable on Your Notes

If your note is a floating rate note, it may bear interest at a rate equal to a specified base rate plus a percentage or a specified number of basis points (called the spread). The specified base rate may be negative for some or all interest periods. For any interest period, if the specified base is negative, then it will reduce the interest rate payable for such interest period below the specified spread, potentially to zero. Accordingly, you may receive an interest rate on your notes that is lower than the specified spread, and this would adversely affect the value of and return on your notes.

Considerations Relating to Indexed Notes

We use the term “indexed notes” to mean any notes whose value is linked to any underlying asset or index. Indexed notes may present a high level of risk, and investors in certain indexed notes may lose part of their investment in the notes, depending on the structure as indicated in the pricing supplement. In addition, the treatment of indexed notes for U.S. federal income tax purposes is often unclear due to the absence of any authority specifically addressing the issues presented by any particular indexed note. Thus, if you propose to invest in indexed notes, you should independently evaluate the federal income tax consequences of purchasing an indexed note that apply in your particular circumstances. You should also read “United States Taxation” below for a discussion of U.S. tax matters.

Considerations Relating to Indexed Notes Generally

Investors in Indexed Notes Could Lose Their Investment

The principal amount and/or interest payable on an indexed note, and the cash value or physical settlement value of a physically settled note will be determined by reference to the price, value or level of one or more securities, currencies or other properties, any other financial, economic or other measure or instrument, including the occurrence or non-occurrence of any event or circumstance, and/or one or more

indices or baskets of any of these items. We refer to each of these as an “index” or “indices”. The direction and magnitude of the change in the value of the relevant index will determine the principal amount of an indexed note payable at maturity and/or the amount of interest payable on each interest payment date and the cash value or physical settlement value in the case of a physically settled note. The terms of a particular indexed note may or may not include a guaranteed return of a percentage of the face amount at maturity or a minimum interest rate. Thus, if you purchase an indexed note that does not guarantee the return of 100% of principal, you may lose all or a portion of the principal invested and may receive no interest on your investment.

The Return on Indexed Notes May Be Below the Return on Similar Securities

Depending on the terms of an indexed note, as specified in the applicable pricing supplement, you may not receive any periodic interest payments or receive only very low payments on the note. As a result, the overall return on a note may be less than the amount you would have earned by investing the face amount of a note in a non-indexed debt security that bears interest at a prevailing market fixed or floating rate.

Payments on Indexed Notes May Be Linked to the Average Performance of the Underlying Indices and Not the Overall Change in the Index Performance

The formula used to determine the amounts payable on an indexed note may be calculated by reference to the average performance of the underlying index or indices over a number of observation dates and not by reference to the overall change in the index or indices over the life of your note. In this case, relevant index levels on one or more of these dates may be sufficiently low or high to offset any overall gain or decline in the index, in which case you might receive no payment amount on the note or a payment amount that is less than the amount that would have been paid had the payment amount been linked to the change in the index from the issue date (or other date, as specified in the applicable pricing supplement) to the final observation date or the stated maturity date, as the case may be.

Use of Leverage Factors Over 100 Percent May Result in Disproportionate Exposure to the Negative Performance of the Underlying Index

Where the applicable pricing supplement of the notes provides that the redemption amount of such note is based upon the performance of the underlying index multiplied by a leverage factor which is over 100 percent, a purchaser may participate disproportionately in any positive performance and/or may have a disproportionate exposure to any negative performance of the underlying index. Due to this leverage effect, the notes represent a very speculative and risky form of investment since any loss in the value of the underlying index carries the risk of a correspondingly higher loss on the notes.

The Issuer of a Security or Currency That Serves as an Index Could Take Actions That May Adversely Affect an Indexed Note

The issuer of a security or currency that serves as an index or part of an index for an indexed note will have no involvement in the offer and sale of the note and no obligations to the holder of the note. The issuer of such security or currency may take actions, such as a merger or sale of assets, without regard to the interests of the holder. Any of these actions could adversely affect the value of a note based on an index linked to such security.

If the index for an indexed note includes a non-U.S. dollar currency or other asset denominated in a non-U.S. dollar currency, the government that issues that currency will also have no involvement in the offer and sale of the indexed note and no obligations to the holder of that note. That government may take actions that could adversely affect the value of such note. See “— Considerations Relating to Notes Denominated or Payable in or Linked to Currencies Other Than Your Own Principal Currency — Government Policy Can Adversely Affect Foreign Currency Exchange Rates and an Investment in a Foreign Currency Note” below for more information about these kinds of notes.

An Indexed Note May Be Linked to a Volatile Index, Which May Adversely Affect an Investment

Some indices are highly volatile, which means that their value may change significantly, up or down, over a short period of time. It is impossible to predict the future performance of an index based on its historical performance. The amount of principal or interest that can be expected to become payable on an indexed note may vary substantially from time to time. Because the amount of principal or interest payable on an indexed note is generally calculated based on the value of the relevant index on a specified date or over a limited period of time, volatility in the index increases the risk that the return on an indexed note may be adversely affected by a fluctuation in the level of the relevant index.

The volatility of an index may be affected by financial, political, military or economic events, including governmental actions, or by the activities of participants in the relevant markets. Any of these events or activities could adversely affect the value of an indexed note.

Indices May Move in Opposite Directions, Which May Affect the Amount You Receive on an Indexed Note Linked to a Basket of Indices

If you purchase an indexed note, the amount you may receive on the note, if any, may be based on the performance of a basket of indices comprised of index components. The market price for different types of index components may move in opposite directions. As a result, the level of the indices to which the note is linked may move such that the index performance of one or more index components may offset or be offset by the index performance of one or more of the other basket indices, which ultimately may result in a decrease in the overall return on the note or no payment amount on your note.

Underlying Indices of Emerging Markets May be Volatile and Unstable

Where the applicable pricing supplement of the notes reference one or more emerging market underlying indices, purchasers of such notes should be aware that the political and economic situation in countries with emerging economies or stock markets may be undergoing significant evolution and rapid development, and such countries may lack the social, political and economic stability characteristic of more developed countries, including a significant risk of currency value fluctuation. Such instability may result from, among other things, authoritarian governments, or military involvement in political and economic decision-making, including changes or attempted changes in governments through extra-constitutional means; popular unrest associated with demands for improved political, economic or social conditions; internal insurgencies; hostile relations with neighboring countries; and ethnic, religious and racial disaffections or conflict. Certain of such countries may have in the past failed to recognize private property rights and have at times nationalized or expropriated the assets of private companies. As a result, the risks from investing in those countries, including the risks of nationalization or expropriation of assets, may be heightened. In addition, unanticipated political or social developments may affect the values of an underlying asset investment in those countries. The small size and inexperience of the securities markets in certain countries and the limited volume of trading in securities may make the underlying assets illiquid and more volatile than investments in more established markets. There may be little financial or accounting information available with respect to local issuers, and it may be difficult as a result to assess the value or prospects of the underlying indices.

Information About an Index or Indices May Not Be Indicative of Future Performance

If we issue an indexed note, we may include historical information about the relevant index or indices in the applicable pricing supplement. Any information about indices that we may provide will be furnished as a matter of information only, and you should not regard the information as indicative of the range of, or trends in, fluctuations in the relevant index or indices that may occur in the future.

If the Level of an Index Changes, the Market Price of an Indexed Note May Not Change in the Same Manner

An indexed note may trade quite differently from the performance of the relevant index or indices. Changes in the level of the index may not result in a comparable change in the market price of your note. Some of the other reasons for this disparity are discussed above under “— Considerations Relating to Notes Generally — The Market Price of Any Notes We May Issue May Be Influenced by Many Unpredictable Factors and If You Buy a Note and Sell It Prior to the Stated Maturity Date, You May Receive Less Than the Face Amount of Your Note”.

If You Purchase an Indexed Note, You Will Have No Rights with Respect to any Underlying Index Components or Related Contracts to which Your Note is Linked.

Investing in an indexed note will not make you a holder of the index, any index components or contracts with respect thereto. As a result, you will not have any voting rights, any right to receive dividends or other distributions or any other rights with respect to any of the index components. Your note will be paid in cash, and you will have no right to receive delivery of any such index components.

There Is No Affiliation Between the Issuers of Any of the Index Securities Contained in an Equity or Debt Index Included in an Indexed Note and Us, and We Are Not Responsible for Any Disclosure by Such Issuers

Unless we indicate in the applicable pricing supplement, we are not affiliated with any of the issuers of the securities to which a note is linked or included in any of the equity or debt indices included in an index, or the sponsor of any of these indices. We and our affiliates may currently or from time to time in the future engage in business with the issuers of other index securities included in any of the equity or debt indices included in an indexed note. Nevertheless, neither we nor any of our affiliates assumes any responsibility for the adequacy or accuracy of any publicly available information about any issuers of index securities. You, as an investor in a note, should make your own investigation into the indices and the issuers of the index securities that make up the relevant index or indices. See the applicable pricing supplement for additional information about the relevant index or indices to which a particular note is linked.

Neither the sponsors of any of the relevant index or indices included in an indexed note nor any of the issuers of the index securities other than, where applicable, ourselves and Goldman Sachs & Co. LLC or Goldman Sachs International, as index sponsor of any index published by it are involved in any offering of notes in any way and none of them has any obligation of any sort with respect to an indexed note. Neither the sponsors of the indices nor any of the issuers of the index securities have any obligation to take your interests into consideration for any reason, including in taking any corporate actions that might affect the market price for your note. Any of the sponsors of any of the indices may decide to discontinue calculating and publishing such index, which would mean that the calculation agent, which unless we indicate in the applicable pricing supplement will be one of our affiliates, would have discretion in making determinations with respect to such index.

An Index to Which an Indexed Note Is Linked Could Be Changed or Become Unavailable

Some indices compiled by us or our affiliates or third parties may consist of or refer to several or many different securities or currencies or other instruments or measures. The compiler of such an index typically reserves the right to alter the composition of the index and the manner in which the value of the index is calculated. An alteration may result in a decrease in the value of or return on an indexed note that is linked to the index. The indices for our indexed notes may include published indices of this kind or customized indices developed by us or our affiliates in connection with particular issues of indexed notes.

A published index may become unavailable, or a customized index may become impossible to calculate in a normal manner, due to events such as war, natural disaster, cessation of publication of the

index or a suspension or disruption of trading in one or more securities or currencies or other instruments or measures on which the index is based. If an index becomes unavailable or impossible to calculate in a normal manner, the terms of a particular indexed note may allow us to delay determining the amount payable as principal or interest on an indexed note or may use an alternative method to determine the value of the unavailable index. Alternative methods of valuation are generally intended to produce a value similar to the value resulting from reference to the relevant index. However, it is unlikely that any alternative method of valuation we use will produce a value identical to the value that the actual index would produce. If we use an alternative method of valuation for a note linked to an index of this kind, the value of the note, or the rate of return on it, may be lower than it otherwise would be.

Some indexed notes are linked to indices that are not commonly used or have been developed only recently. The lack of a trading history may make it difficult to anticipate the volatility or other risks associated with an indexed note of this kind. In addition, trading in these indices or their underlying stocks or currencies or other instruments or measures, or options or futures contracts on these stocks or currencies or other instruments or measures, may be limited, which could increase their volatility and decrease the value of the related indexed notes or the rates of return on them.

If You Purchase an Indexed Note, the Return on the Note Will Not Reflect the Return or Any Distributions, Dividends or Other Payments Made on Any Index Components

In the case of an indexed note, the sponsor of each index to which the note is linked will calculate the level of the relevant index by reference to the market prices of the index components with respect thereto included in that index, without taking account of the value of any distributions, dividends or other payments. As a result, if you invest in an indexed note, the return on your note will not reflect the return you would realize if you actually owned the index components and received the distributions, dividends or other payments made on them.

The Policies of an Index Sponsor and Changes Affecting an Index or Indices or Any of Its Components Could Affect the Amount Payable on an Indexed Note and Its Market Value

The policies of an index sponsor concerning the calculation of the index level, additions, deletions or substitutions of index components and the manner in which changes affecting the index components or their issuers, such as dividends, reorganizations or mergers, are reflected in the index level could affect the index level and, therefore, the amount payable on any indexed notes we may issue on the stated maturity date and the market value of any such notes prior to such date. The amount payable on an indexed note and its market value could also be affected if the index sponsor changes these policies, for example, by changing the manner in which it calculates the index level, or if the index sponsor discontinues or suspends calculation or publication of the index level, in which case it may become difficult to determine the market value of the note. If events such as these occur or if the index level is not available on any relevant observation date because of a market disruption event or for any other reason, the calculation agent — which initially will be Goldman Sachs International, our affiliate — may determine the index level on any such determination date — and thus the amount payable on the stated maturity date — in a manner it considers appropriate, in its sole discretion.

Special Considerations Relating to Indexed Notes Linked to Stock or Bond Indices

Payments on Notes That Reference U.S. Equities May be Subject to U.S. Tax

Financial instruments that directly or indirectly reference the performance of U.S. equities (including an index or basket that includes U.S. equities) may be subject to withholding tax under Section 871(m) of the Code. While notes issued pursuant to this offering circular will not be subject to withholding under these rules, a holder may still be subject to Section 871(m) tax in respect of the notes in certain limited circumstances even when no withholding is required. Prospective holders of such notes should consult the discussion below under “United States Taxation – Dividend Equivalent Payments” for further information.

Considerations Relating to the Role of The Goldman Sachs Group, Inc. and Its Affiliates

Trading and Other Transactions by Us in Instruments Linked to an Index or the Components of an Index May Impair the Market Price of an Indexed Note

We, through Goldman Sachs International or one or more of our other affiliates, expect to hedge our obligations under an indexed note by purchasing some or all of the following: index components and options or futures on any of the indices or index components or other instruments linked to any of the indices or index components. We also expect to adjust any such hedges by, among other things, purchasing or selling any of the foregoing, at any time and from time to time and to unwind such hedges by purchasing or selling any of the foregoing at any time. We may also enter into, adjust and unwind hedging transactions relating to other index-linked notes whose returns are linked to one or more indices. Any of these hedging activities may affect the level of any of the indices — directly or indirectly by affecting the price of the index components — and, therefore, may adversely affect the market price of the relevant notes. It is possible that we, through our affiliates, could receive substantial returns with respect to our hedging activities while the market price of the relevant notes may decline. You should read the discussion of use of proceeds in the applicable pricing supplement for more information on the securities transactions in which we or one or more of our affiliates may engage.

Goldman Sachs International and our other affiliates may also engage in trading in one or more of the index components or instruments linked to any of the indices or index components included in an indexed note for their proprietary accounts, for other accounts under their management or to facilitate transactions, including, in the case of notes linked to an equity index, block transactions, on behalf of customers. Any of these activities of Goldman Sachs International or our other affiliates could affect the level of any of the indices — directly or indirectly by affecting the price of any index components — and, therefore, could adversely affect the market price of the relevant notes. We may also issue, and Goldman Sachs International and our other affiliates may also issue or underwrite, other securities or financial or derivative instruments with returns linked to changes in the level of any of the indices or index components. By introducing competing products into the marketplace in this manner, we and our affiliates could adversely affect the market price of the relevant notes.

The fiscal agency agreement governing notes we may issue under this offering circular does not, with respect to indexed notes, impose any restriction on our ability or the ability of any of our affiliates to purchase or sell all or any portion of the index components or instruments linked to those components or the indices.

Our Business Activities May Create Conflicts of Interest Between You and Us

As noted above, Goldman Sachs International and our other affiliates expect to engage in trading activities related to one or more of the indices included in an indexed note and the relevant index components that are not for your account or on your behalf. These trading activities may present a conflict between your interest in an indexed note and the interests Goldman Sachs International or our other affiliates have in their proprietary accounts, in facilitating transactions, including, in the case of notes linked to an equity index, block trades, for their customers and in accounts under their management. These trading activities, if they influence the level of the relevant index, could be adverse to your interests as a beneficial owner of an indexed note.

Goldman Sachs International and our other affiliates may, at present or in the future, engage in business with the issuers of the index securities contained in an equity or debt index included in an indexed note, including by making loans to or equity investments in those companies or providing advisory services to them. These services could include merger and acquisition advisory services. Any such activities may present a conflict between the obligations of Goldman Sachs International or another of our affiliates and your interests as a beneficial owner of an indexed note. Moreover, one or more of our affiliates may have published or in the future expect to publish research reports with respect to one or

more of the issuers of the index components. Any of these activities by any of our affiliates may affect the level of any of the indices and, therefore, the market price of the relevant notes.

We or One of Our Affiliates May Be the Index Sponsor of an Index or Indices to Which Your Note Is Linked and Will Have the Authority to Make Determinations That Could Materially Affect Your Note in Various Ways and Create Conflicts of Interest

The index or indices to which your note is linked may be developed, owned, calculated and maintained by us or one of our affiliates. As index sponsor, we would be responsible for the composition, calculation and maintenance of the index and would have determinative influence over its composition, calculation and maintenance. The judgments that we or our affiliates, as index sponsor, would make in connection with the composition, calculation and maintenance of the index, could affect both the market price of your note and the amount payable at maturity.

We or our affiliates, in our capacity as index sponsor of an index to which your note is linked, would have no obligation to take your interests into consideration for any reason. We or our affiliates may decide to discontinue calculating and publishing the index which could mean that Goldman Sachs International, our affiliate, as calculation agent, would have the discretion to make determinations with respect to the index levels of the index for purposes of calculating the amount payable at maturity.

As Calculation Agent, Goldman Sachs International Will Have the Authority to Make Determinations That Could Affect the Market Price of an Indexed Note, When the Note Matures and the Amount Payable at Maturity

As calculation agent, Goldman Sachs International will have discretion in making various determinations that affect the market price of an indexed note, including all determinations regarding the relevant index or indices (including adjustments, rebasing and substitution, among other factors), any successor indices, index reference prices, contract prices, market disruption events, exchange business days, observation dates, any other factors or events relevant to the calculation of amounts dependent on the performance of the index or indices, business days, if applicable, interest amounts and interest payment dates, and the stated maturity. These determinations could adversely affect the market price for the note and may present Goldman Sachs International with a conflict of interest of the kind described above under “— Our Business Activities May Create Conflicts of Interest Between You and Us”.

Considerations Relating to Notes Denominated or Payable in or Linked to Currencies Other Than Your Own Principal Currency

If you intend to invest in a note whose principal and/or interest is payable in a currency other than your own principal currency, which we refer to as a “foreign currency”, or a note that may be settled by delivery of or reference to a foreign currency or property denominated in or otherwise linked to a foreign currency, you should consult your own financial, tax and legal advisors as to the currency risks entailed by your investment. Notes of this kind may not be an appropriate investment for investors who are unsophisticated with respect to foreign currency transactions.

An Investment in a Foreign Currency Note Involves Currency-Related Risks

An investment in a note denominated in a foreign currency may entail significant risks that may not be associated with a similar investment in a note payable solely in your own principal currency. These risks include the possibility of significant changes in rates of exchange between your currency and the various foreign currencies or composite currencies and the possibility of the imposition or modification of foreign exchange controls or other conditions by foreign governments. These risks generally depend on factors over which we have no control, such as financial, economic, military and political events and the supply of and demand for the relevant currencies in the global markets.

Changes in Foreign Currency Exchange Rates Can Be Volatile and Unpredictable

Rates of exchange between currencies have been highly volatile, and this volatility may continue and perhaps spread to other currencies in the future. Fluctuations in currency exchange rates could adversely affect an investment in a note denominated in, or whose value is otherwise linked to, a foreign currency. Depreciation of the specified currency against your own principal currency could result in a decrease in the market value of your note, including the principal payable at maturity. That in turn could cause the market value of your note to fall. Depreciation of the foreign currency against your own principal currency could result in a decline in the market value of your note.

Government Policy Can Adversely Affect Foreign Currency Exchange Rates and an Investment in a Foreign Currency Note

Foreign currency exchange rates can either float or be fixed by sovereign governments. From time to time, governments use a variety of techniques, such as intervention by a country's central bank or imposition of regulatory controls or taxes, to affect the exchange rate of their currencies. Governments may also issue a new currency to replace an existing currency or alter the exchange rate or exchange characteristics by devaluation or revaluation of a currency. Thus, a special risk in purchasing foreign currency notes may be that their yields or payouts could be significantly and unpredictably affected by governmental actions. Even in the absence of governmental action directly affecting foreign currency exchange rates, political, military or economic developments in the country issuing the specified foreign currency for a note or elsewhere could lead to significant and sudden changes in the foreign currency exchange rate between the foreign currency and your principal currency. These changes could affect your principal currency equivalent value of the note as participants in the global currency markets move to buy or sell the foreign currency or your own principal currency in reaction to these developments.

Governments have imposed from time to time and may in the future impose exchange controls or other conditions, including taxes, with respect to the exchange or transfer of a specified currency that could affect exchange rates as well as the availability of a specified currency for a note at its maturity or on any other payment date. In addition, the ability of a holder to move currency freely out of the country in which payment in the currency is received or to convert the currency at a freely determined market rate could be limited by governmental actions.

We May Not Adjust Any Notes to Compensate for Changes in Foreign Currency Exchange Rates

Except as described below, we will not make any adjustment or change in the terms of any note in the event of any change in exchange rates for the relevant currency, whether in the event of any devaluation, revaluation or imposition of exchange or other regulatory controls or taxes or in the event of other developments affecting that currency or any other currency. Consequently, investors in notes will bear the risk that their investment may be adversely affected by these types of events.

The Manipulation of Published Currency Exchange Rates and Possible Reforms Affecting the Determination or Publication of Exchange Rates or the Supervision of Currency Trading Could Have An Adverse Impact On Your Notes

Regulators in various 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.

There are also risks associated with notes payable in or linked to currencies other than U.S. dollars

Non-U.S. Dollar Notes Will Permit Us to Make Payments in U.S. Dollars or Delay Payment If We Are Unable to Obtain the Specified Currency

Notes payable in a currency other than U.S. dollars will provide that, if the other currency (or its successor) is not available to us at or about the time when a payment on the notes comes due because of circumstances beyond our control, we will be entitled to make the payment in U.S. dollars or delay making the payment. These circumstances could include the imposition of exchange controls or our inability to obtain the other currency because of a disruption in the currency markets. If we made payment in U.S. dollars, the exchange rate we would use would be based on the most recently available noon buying rate in New York City for cable transfers of the other currency, available from the Federal Reserve Bank of New York. The most recently available rate may be for a date substantially before the payment date. A determination of this kind may be based on limited information and would involve significant discretion on the part of the exchange rate agent, as specified in the applicable pricing supplement. As a result, the value of the payment in U.S. dollars an investor would receive on the payment date may be less than the value of the payment the investor would have received in the other currency if it had been available, or may be zero. These matters are discussed under “Description of the Program — Features Common to All Notes — Currency of Notes” and “Description of the Program — Payment Mechanics for Notes” below. In addition, the unavailability of the specified non-U.S. currency will expose you to currency risks with respect to the U.S. dollar which would not have existed had the specified non-U.S. currency been available.

In a Lawsuit for Payment on a Non-U.S. Dollar Note, an Investor May Bear Foreign Currency Exchange Risk

The notes will be governed by New York law. Under Section 27 of the New York Judiciary Law, a state court in the State of New York rendering a judgment on a note denominated in a foreign currency other than U.S. dollars would be required to render the judgment in the specified currency; however, the judgment would be converted into U.S. dollars at the exchange rate prevailing on the date of entry of the judgment. Consequently, in a lawsuit for payment on a note denominated in a currency other than U.S. dollars, investors would bear currency exchange risk until judgment is entered, which could be a long time. You will therefore be exposed to currency risk with respect to both the U.S. dollar and, if applicable, the foreign currency.

In courts outside of New York, investors may not be able to obtain judgment in a specified currency other than U.S. dollars. For example, a judgment for money in an action based on a non-U.S. dollar note in many other U.S. federal or state courts ordinarily would be enforced in the United States only in U.S. dollars. The date used to determine the rate of conversion of the currency in which any particular note is denominated into U.S. dollars will depend upon various factors, including which court renders the judgment.

Information About Foreign Currency Exchange Rates May Not Be Indicative of Future Performance

If we issue a note denominated in a specified currency other than U.S. dollars, we may include in the applicable pricing supplement a currency supplement that provides information about historical exchange rates for that currency in relation to the U.S. dollar. Any information about exchange rates that we may provide will be furnished as a matter of information only, and you should not regard the information as indicative of the range of, or trends in, fluctuations in foreign currency exchange rates that may occur in the future. That rate will likely differ from the exchange rate used under the terms that apply to a particular note. In addition, the historical relationship between the U.S. dollar and the specified non-U.S. currency may not be an accurate proxy for the historical relationship between your own principal currency and that currency.

Determinations Made By the Exchange Rate Agent Are Made At Its Sole Discretion

All determinations made by the exchange rate agent shall be at its sole discretion (except to the extent it is expressly provided in this offering circular or in the applicable pricing supplement that any determination is subject to approval by us) and, in the absence of manifest error, shall be conclusive for all purposes and will bind all holders of the notes and us. The exchange rate agent will not have any liability for its determinations.

Considerations Relating to Notes Linked to Benchmark Underlyers such as LIBOR and EURIBOR

Regulation and Reform of “Benchmarks”, Including LIBOR, EURIBOR and Other Interest Rate, Equity, Foreign Exchange Rate and Other Types of Benchmarks May Cause such “Benchmarks” to Perform Differently Than in the Past, or to Disappear Entirely, or Have Other Consequences Which Cannot be Predicted

The London Interbank Offered Rate (“LIBOR”), the Euro Interbank Offered Rate (“EURIBOR”) and other interest rate indices which are deemed to be “benchmarks” are the subject of ongoing national and international regulatory reform. These reforms may cause such “benchmarks” to perform differently than in the past, or to disappear entirely, or have other consequences which cannot be predicted. Any such consequence could have a material adverse effect on any notes linked to such a “benchmark”.

On 17 May 2016, the Council of the European Union adopted the EU Regulation on indices used as benchmarks and financial instruments and financial contracts or to measure the performance of investment funds (the “Benchmark Regulation”). The Benchmark Regulation entered into force in June 2016 and became fully applicable in the EU on 1 January 2018 (save that certain provisions, including those related to “critical benchmarks”, took effect as at 30 June 2016), subject to certain transitional provisions. The Benchmark Regulation applies to the contribution of input data to a “benchmark”, the provision or administration of a “benchmark” and the use of a “benchmark” in the EU. Among other things, it (a) requires EU benchmark administrators to be authorised or registered as such and to comply with extensive requirements relating to the administration of “benchmarks” and (b) prohibits certain uses by EU supervised entities of “benchmarks” provided by EU administrators which are not authorised or registered in accordance with the Benchmark Regulation (or, if located outside of the EU, deemed equivalent or recognised or endorsed).

The scope of the Benchmark Regulation is wide and, in addition to so-called “critical benchmark” indices such as LIBOR and EURIBOR, will apply to many other interest rate indices which are referenced in the notes. The Benchmark Regulation could have a material impact on notes linked to a “benchmark” rate or index, including in any of the following circumstances:

- a rate or index which is a “benchmark” may not be used in certain ways by an EU supervised entity if (subject to applicable transitional provisions) its administrator does not obtain authorisation or registration (or, if a non-EU entity, does not satisfy the “equivalence” conditions and is not “recognised” pending an equivalence decision). In such event, depending on the particular “benchmark” and the applicable terms of the notes, the notes could be de-listed, adjusted, redeemed prior to maturity or otherwise impacted; and
- as the methodology or other terms of the “benchmark” could be changed in order to comply with the terms of the Benchmark Regulation, and such changes could have the effect of reducing or increasing the rate or level or affecting the volatility of the published rate or level, and could lead to adjustments to the terms of the notes, including Calculation Agent determination of the rate or level in its discretion.

The Benchmark Regulation and any other international, national or other proposals for reform or the general increased regulatory scrutiny of “benchmarks” could increase the costs and risks of administering or otherwise participating in the setting of a “benchmark” and complying with any such regulations or requirements. Such factors may have the effect of discouraging market participants from continuing to administer or contribute to certain “benchmarks”, trigger changes in the rules or methodologies used in

certain “benchmarks” or lead to the disappearance of certain “benchmarks”, including LIBOR (as discussed below). The disappearance of a “benchmark” or changes in the manner of administration of a “benchmark” could result in adjustment to the terms and conditions, early redemption, discretionary valuation by the calculation agent, delisting or other consequence in relation to notes linked to such “benchmark”. Any such consequence could have a material adverse effect on the value of and return on any such notes.

Considerations Relating to Notes Linked to LIBOR and EURIBOR

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

On July 27, 2017, the Chief Executive of the U.K. Financial Conduct Authority (the “FCA”), which regulates LIBOR, announced that the FCA will no longer persuade or compel banks to submit rates for the calculation of LIBOR after 2021. Such announcement indicates that the continuation of LIBOR on the current basis cannot and will not be guaranteed after 2021. It is not possible to predict the effect that this announcement or any such discontinuance will have on the LIBOR rate or your notes. If, in respect of any LIBOR note or EURIBOR note, the calculation agent determines on the relevant interest determination date that the LIBOR base rate or EURIBOR base rate, as applicable has been discontinued, then the calculation agent will use a substitute or successor base rate that it has determined in its sole discretion is most comparable to the LIBOR base rate or EURIBOR base rate, as applicable, provided that if the calculation agent determines there is an industry-accepted successor base rate, then the calculation agent shall use such successor base rate. If the calculation agent has determined a substitute or successor base rate in accordance with the foregoing, the calculation agent in its sole discretion may determine the business day convention, the definition of business day and the interest determination date to be used and any other relevant methodology for calculating such substitute or successor base rate, including any adjustment factor needed to make such substitute or successor base rate comparable to the LIBOR base rate or EURIBOR base rate, as applicable, in a manner that is consistent with industry-accepted practices for such substitute or successor base rate. See “Features Common to All Notes—Interest Rates—Floating Rate Notes—LIBOR Notes” on pages 55-56.

DOCUMENTS INCORPORATED BY REFERENCE

The Goldman Sachs Group, Inc. files documents and information with the United States Securities and Exchange Commission, which we refer to as the “SEC”. The following documents, which The Goldman Sachs Group, Inc. has filed with the SEC, are hereby incorporated by reference into this offering circular:

- (1) the Annual Report on Form 10-K for the fiscal year ended December 31, 2018, dated February 25, 2019, including Exhibit 21.1 thereto, which it filed with the SEC on February 26, 2019;
- (2) the Proxy Statement relating to its 2019 Annual Meeting of Shareholders on May 2, 2019, which it filed with the SEC on March 22, 2019;
- (3) the Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2019, dated May 3, 2019 which it filed with the SEC on May 6, 2019;
- (4) the Current Report on Form 8-K dated May 3, 2019, which we filed with the SEC on May 3, 2019; and
- (5) all documents filed by The Goldman Sachs Group, Inc. with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the U.S. Securities Exchange Act of 1934 on or after the date of this offering circular and before the termination of the offering of the notes described in this offering circular.

The Goldman Sachs Group, Inc. will provide without charge to each person to whom this offering circular is delivered, upon his or her written or oral request, a copy of any or all documents referred to above which have been incorporated by reference into this offering circular, excluding exhibits to those documents. Unless otherwise indicated, any exhibits to such documents are not incorporated by reference into, and do not form part of, this offering circular. You can request those documents from Investor Relations, 200 West Street, New York, NY 10282, telephone +1 (212) 902-0300. A copy of those documents can also be obtained without charge from the office of the paying agent listed at the end of this offering circular. Our filings with the SEC are also available through the SEC’s website at <http://www.sec.gov>.

INTRODUCTION

The Goldman Sachs Group, Inc. is a leading global investment banking, securities and investment management firm that provides a wide range of financial services to a substantial and diversified client base that includes corporations, financial institutions, governments and individuals. Founded in 1869, we are one of the oldest and largest investment banking firms. We filed our original certificate of incorporation with the Secretary of State of the State of Delaware on July 21, 1998. Our headquarters are located at 200 West Street, New York, NY 10282, telephone +1 (212) 902-1000. We also maintain offices in all major financial centers around the world.

The Goldman Sachs Group, Inc. has entered into an agreement with Goldman Sachs International, an affiliate of The Goldman Sachs Group, Inc., under which Goldman Sachs International will, and other dealers may, act as agents for the placement, or purchase for resale, of notes issued by The Goldman Sachs Group, Inc.

USE OF PROCEEDS

We intend to use the net proceeds from the sale of the notes to provide additional funds for our operations and for other general corporate purposes.

We will receive the net proceeds only from sales of the notes made in connection with their original issuance. We do not expect to receive any proceeds from resales of the notes by Goldman Sachs International or any of our other affiliates in market-making transactions. We expect our affiliates to retain the proceeds of their market-making resales and not to pay the proceeds to us.

DESCRIPTION OF THE PROGRAM

Information About Our Series H Euro Medium-Term Note Program

General Description of the Program

When we refer to “notes” in this offering circular, unless otherwise indicated, we mean the Series H euro medium-term notes. The notes may be issued pursuant to this offering circular and the relevant pricing supplement prepared in connection with a particular issuance of notes. The notes will not be secured by any property or assets and the notes will not be subordinated to any of our other debt obligations. We may offer and sell these notes to or through one or more underwriters, dealers and agents, or directly to purchasers, on a continuous or delayed basis.

The Notes Will Be Senior

None of the notes will be secured by any property or assets of The Goldman Sachs Group, Inc. or its subsidiaries. Thus, by owning a note, you are one of our unsecured creditors. The notes will constitute part of our senior debt and will rank equally with all of our other unsecured and unsubordinated debt.

The Notes Will Be Issued Under a Fiscal Agency Agreement

The notes will be issued pursuant to a document called a fiscal agency agreement, which is a contract between The Goldman Sachs Group, Inc. and The Bank of New York Mellon, which acts as fiscal agent. The Goldman Sachs Group, Inc. and The Bank of New York Mellon entered into such a fiscal agency agreement on June 11, 2010. This fiscal agency agreement has since been amended and may be further amended from time to time. The fiscal agent performs certain administrative duties for us. The fiscal agent does not act as an indenture trustee on your behalf.

We May Issue Other Series of Debt Securities

The fiscal agency agreement permits us to issue different series of notes from time to time. The Series H euro medium-term notes is a single, distinct series of notes. We may, however, issue notes in such amounts, at such times and on such terms as we wish. The notes will differ from one another, and from other series, in their terms.

When we refer to the “notes” or “these notes”, unless otherwise indicated, we mean the Series H euro medium-term notes. When we refer to a “series” of notes, we mean a series, such as the Series H euro medium-term notes, issued under one of our fiscal agency agreements. When we refer to an “issue” or an “issuance” of notes, we mean an issue of notes having the same terms and conditions, including any reopenings of that issuance, and bearing as applicable the same Common Code or ISIN (or similar type of identifier).

Amounts That We May Issue

The fiscal agency agreement does not limit the aggregate amount of notes that we may issue, nor does it limit the number of series or the aggregate amount of any particular series we may issue. Also, if we issue notes having the same terms in a particular offering, we may “reopen” that offering at any later time and offer additional notes having the same stated maturity date, interest payment dates, if any, and other terms, except for the date of issuance and issue price. See “— Form, Exchange, Registration and Transfer — Extensions for Further Issuances” below.

The fiscal agency agreement and the notes do not limit our ability to incur other indebtedness or to issue other securities. Also, we are not subject to financial or similar restrictions by the terms of the notes or the fiscal agency agreement.

Use of This Offering Circular in Market-Making Transactions

Our affiliates may use this offering circular to resell notes in market-making transactions from time to time, including notes that we have not yet issued. See “Plan of Distribution” below. In this offering circular, the term “this offering” means the initial offering of the notes made in connection with their original issuance. This term does not refer to any subsequent resales of notes in market-making transactions.

We Are a Holding Company

Because our assets consist primarily of interests in the subsidiaries through which we conduct our businesses, our right to participate as an equity holder in any distribution of assets of any of our subsidiaries upon the subsidiary’s liquidation or otherwise, and thus the ability of our note holders to benefit from the distribution, is junior to creditors of the subsidiary, except to the extent that any claims we may have as a creditor of the subsidiary are recognized. Many of our subsidiaries, including our broker-dealer, bank and insurance subsidiaries, are subject to laws that restrict dividend payments or authorize regulatory bodies to block or reduce the flow of funds from those subsidiaries to us. Restrictions or regulatory action of that kind could impede access to funds that we need to make payments on our obligations, including debt obligations. Because some of our subsidiaries, including from time to time some of our principal operating subsidiaries, are partnerships in which we are a general partner or the sole limited partner, we may be liable for their obligations. We also guarantee many of the obligations of our subsidiaries. Any liability we may have for our subsidiaries’ obligations could reduce our assets that are available to satisfy our direct creditors, including investors in our notes. Governing Law

The fiscal agency agreement and the notes will be governed by New York law. As our headquarters are located in the State of New York, we expect that courts of the State of New York would have jurisdiction in the event of litigation.

This Section Is Only a Summarized Discussion of the Fiscal Agency Agreement and of Certain Terms of Your Note

The fiscal agency agreement, as applicable, and related documents, including your note, contain the full legal text of the matters described in this section and your pricing supplement. A copy of the fiscal agency agreement is available for inspection at the corporate trust office of the fiscal agent in the Borough of Manhattan, New York City and at the office of the paying agent listed at the end of this offering circular.

Investors should carefully read the description of the terms and provisions of the notes and the fiscal agency agreement below. This section and your pricing supplement summarize all the material terms of the fiscal agency agreement and your note. They do not, however, describe every aspect of the fiscal agency agreement and your note. For example, in this section entitled “Description of the Program” and your pricing supplement, we use terms that have been given special meaning in fiscal agency agreement, but we describe the meaning of only the more important of those terms.

As you read this section, please remember that the specific terms of your notes as described in your pricing supplement will supplement and, if applicable, may modify and replace the general terms described in this section and elsewhere in this offering circular. If there are any differences between your pricing supplement and this offering circular, your pricing supplement will control with regard to your note. Thus, the statements we make in this section may not apply to your note.

When we refer to your pricing supplement, we mean the pricing supplement describing the specific terms of the note you purchase. The terms we use in any pricing supplement that we also use in this

document will have the meaning we give them in this document, unless we say otherwise in the applicable pricing supplement.

Features Common to All Notes

Form of Notes

We will issue each note in registered form. If the notes are stated in the applicable pricing supplement to be issued under NSS, then the notes will be registered in the name of a nominee for a common safekeeper for Euroclear and Clearstream, Luxembourg and we will deliver these notes to a common safekeeper for Euroclear and Clearstream, Luxembourg, which is necessary for notes to be eligible collateral for Eurosystem monetary policy, but does not necessarily mean that the notes will then be recognised as eligible collateral for Eurosystem monetary policy and intra-day credit operations by the Eurosystem at any time during their life.

Global notes in registered form which are not issued under NSS will be deposited with, and registered in the name of a nominee of, a common depositary for Euroclear and Clearstream, Luxembourg or other clearing system as specified in the applicable pricing supplement.

For a further discussion of global notes in registered form, see “— Form, Exchange, Registration and Transfer” below.

The address of Euroclear is 1 Boulevard du Roi Albert II, B-1210 Brussels, Belgium and the address of Clearstream, Luxembourg is 42 Avenue JF Kennedy, L-1855 Luxembourg. The address of any alternative clearing system will be specified in the applicable pricing supplement.

Principal Amount, Stated Maturity and Maturity

Unless otherwise stated, the principal amount of a note means the principal amount payable at its stated maturity, unless such amount is not determinable, in which case the principal amount of a note is its face amount. Any notes owned by us or any of our affiliates are not deemed to be outstanding.

The term “stated maturity” with respect to any note means the day on which the principal amount of that note is scheduled to become due. The principal may become due sooner, by reason of redemption or acceleration after a default or otherwise in accordance with the terms of the note or later, due to the automatic extension of the stated maturity or the extension of the stated maturity at our election or the election of the holder, in each case, in accordance with the terms of the note. The day on which the principal actually becomes due, whether at the stated maturity or otherwise, is called the “maturity” of the principal.

In connection with any tranche of notes, the price and amount of notes to be offered under the program will be determined by us and the relevant dealer at the time of offer in accordance with prevailing market conditions.

Currency of Notes

Each note will be denominated in a currency, composite currency or basket of currencies or currency unit or units that will be specified on the face of the note and in the applicable pricing supplement. We refer to this currency, composite currency, basket of currencies or currency unit or units as a “specified currency”. Some notes may have different specified currencies for principal and interest. You will have to pay for your note by delivering the requisite amount of the specified currency for the principal to Goldman Sachs International or another firm that we name in your pricing supplement, unless other arrangements have been made between you and us or you and that firm. We will make payments on the notes in the applicable specified currency or in another currency; for a further discussion of payment see “— Payment Mechanics for Notes” below. Unless otherwise specified in the applicable pricing supplement, Goldman

Sachs International will be the exchange rate agent for any note denominated in a currency that is not the U.S. dollar.

See “Risk Factors — Considerations Relating to Notes Denominated or Payable in or Linked to Currencies Other Than Your Own Principal Currency” above for more information about the risks of investing in notes denominated in a currency different from your own principal currency.

Types of Notes

We may issue the following three types of notes:

- **Fixed Rate Notes.** A note of this type will bear interest at a fixed rate described in the applicable pricing supplement. This type includes zero coupon notes, which bear no interest and are instead issued at a price lower than the principal amount. See “— Interest Rates — Fixed Rate Notes” below.
- **Floating Rate Notes.** A note of this type will bear interest at rates that are determined by reference to an interest rate formula. In some cases, the rates may also be adjusted by adding or subtracting a spread or multiplying by a spread multiplier and may be subject to a minimum rate or a maximum rate. The various interest rate formulas and these other features are described below under “— Interest Rates — Floating Rate Notes”. If your note is a floating rate note, the formula and any adjustments that apply to the interest rate will be specified in your pricing supplement.
- **Indexed Notes.** A note of this type provides either or both of that the principal amount payable at its stated maturity or the amounts payable during the life of the note, will be determined by reference to, directly or indirectly:
 - securities of one or more issuers;
 - one or more currencies;
 - any consumer price or other inflation index;
 - any other financial, economic or other measure or instrument, including the occurrence or non-occurrence of any event or circumstance and credit events relating to one or more issuers or securities;
 - one or more indices; and/or
 - one or more baskets of the items described above;as specified in the applicable pricing supplement.

A note may have elements of each of the three types of notes listed above. For example, a note may bear interest at a fixed rate (or rates) in some periods and at a floating rate in subsequent interest periods, or may bear interest at a fixed or floating rate. Similarly, a note may provide for a payment of principal at maturity linked to an index and also bear interest at a fixed or floating rate.

If you are a holder of an indexed note, you may receive a principal amount at maturity (including upon acceleration following an event of default) that is less than the outstanding face amount of your note or you may receive no principal amount at all, depending upon the formula used to determine the amount payable and the value of the applicable index or indices at maturity. The value of the applicable index or indices may fluctuate over time.

If you purchase an indexed note, your pricing supplement will include information about the relevant index or indices, about how any amounts that are to become payable will be determined by reference to the price or value of each index, about the terms on which the security may be settled physically or in cash, about any additional foreign exchange or other risks and about any additional tax considerations. Unless the pricing supplement otherwise specifies, Goldman Sachs International will be the calculation agent that will calculate the amounts payable with respect to the indexed note and may exercise significant discretion in doing so. You should carefully read “Risk Factors — Considerations Relating to Indexed Notes” above and any risk factors specified in the relevant pricing supplement before you purchase any indexed notes.

If your indexed note is linked to a Base Rate, references to an “interest reset date” or “interest reset dates” contained in the section “— Interest Rates — Floating Rate Notes — Base Rates” shall be deemed to refer to the any applicable observation dates in respect of such Base Rate, as specified in the applicable pricing supplement.

Original Issue Discount Notes, Including Zero Coupon Notes

A fixed rate note, a floating rate note or an indexed note may be an original issue discount note. A note of this type is issued at a price lower than its principal amount or amount payable at maturity and may provide that, upon redemption or acceleration of its maturity, an amount less than its principal amount or amount payable at maturity will be payable. An original issue discount note may be a zero coupon note.

Sinking Fund

Unless otherwise indicated in your pricing supplement, the notes will not be entitled to the benefit of any sinking fund — that is, we will not deposit money on a regular basis into a separate custodial account to repay your notes.

Information in the Pricing Supplement

Your pricing supplement will describe the specific terms of your note, which will include some or all of the following terms of your note:

- the specified currency or currencies for principal and interest and, if the specified currency is not U.S. dollars, certain other terms relating to your note;
- the authorized denomination;
- the issue price at which we originally issue your note, expressed as a percentage of the aggregate principal amount;
- the original issue date;
- the stated maturity, which will not be more than 40 years from the original issue date and, if applicable, any provisions for the extension of the stated maturity date;
- whether your note is a fixed rate note, a floating rate note, an indexed note or whether it combines elements of each of these types of notes;
- whether your notes are represented by a global note or a master global note;
- if your note is a fixed rate note, the annual rate at which your note will bear interest for the relevant periods and the interest payment dates, if different from those stated under “— Interest Rates — Fixed Rate Notes” below;
- if your note is a floating rate note, the interest rate basis for the relevant periods, which may be one of the base rates described under “— Interest Rates — Floating Rate Notes” below or any other interest rate formula as specified in your pricing supplement; any applicable index currency

or maturity, spread or spread multiplier or initial base rate, maximum rate or minimum rate; if the interest rate basis for your notes is the CMT rate, the designated CMT Reuters screen page; if the interest rate basis for your notes is the federal funds rate, whether the federal funds rate will be determined by reference to the federal funds (effective) rate or the federal funds open rate; and the interest reset, determination, calculation and payment dates, all of which we describe under “— Interest Rates — Floating Rate Notes” below; the day count convention used to calculate interest payments for any period; the business day convention; and the calculation agent;

- if your note is an indexed note, the principal amount, if any, we will pay you at maturity, the amount of interest, if any, we will pay you on the relevant interest payment date or dates or the formula(e) we will use to calculate these amounts, and the terms on which your note will be exchangeable for or payable in cash, securities of an issuer other than The Goldman Sachs Group, Inc. or other property in addition to certain other information relating to the indexed note;
- whether your note is an original issue discount note and, if so, the yield to maturity;
- if applicable, or to the extent we want to modify the provisions described in this offering circular, the circumstances under which your note may be redeemed at our option or repaid at the holder's option before the stated maturity, including any redemption or repayment commencement date, redemption or repayment date(s), redemption or repayment price(s) and redemption or repayment period(s), all of which we describe under “— Redemption and Repayment” below;
- whether admission will be made to the Luxembourg Stock Exchange for your note to be listed on the Official List of the Luxembourg Stock Exchange and admitted to trading on the Euro MTF, and whether the notes will be listed on any other stock exchange; and
- any other terms of your note which could be different from those described in this offering circular.

Notes Offered During Subscription Period

The pricing supplement will also specify if an offering of securities is open for subscription for a specified period of time and, if so, will specify the following:

- if applicable, the process for notification to applicants of the amount allotted and an indication whether dealing in the notes being offered may begin before such notification is made;
- any conditions to which the offer is subject;
- the total amount of the offer and how the amount of notes offered may be increased;
- if applicable, the time period during which the offer will be open and a description of the subscription process;
- if applicable, a description of the possibility to reduce subscriptions and the manner for refunding excess amounts paid by subscribers;
- if applicable, details of the minimum and/or maximum subscription amount;
- if applicable, the method and time limits for paying up the notes being offered;
- if applicable, our ability to extend, postpone, revoke and/or terminate an offer period; or
- if applicable, a full description of the manner and date in which results of the offer are to be made public.

Market-Making Transactions

If you purchase your note in a market-making transaction, you will receive information about the issue price, trade and settlement dates in a separate confirmation of sale. A market-making transaction is one in which Goldman Sachs International or another of our affiliates resells a note it has previously acquired

from another holder. A market-making transaction in a particular note occurs after the original issuance and sale of the note.

Business Days

The following definitions of “business day” may apply to any note, as specified in the applicable pricing supplement:

If “Auckland” is included in your pricing supplement, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Auckland generally are authorized or obligated by law, regulation or executive order to close.

If “Beijing” is included in your pricing supplement, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Beijing generally are authorized or obligated by law, regulation or executive order to close.

If “Euro” is included in your pricing supplement, it means each Monday, Tuesday, Wednesday, Thursday and Friday on which the Trans-European Automated Real-Time Gross Settlement Express Transfer (TARGET) System, or any successor system, is open for business.

If “Hong Kong” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Hong Kong generally are authorized or obligated by law, regulation or executive order to close.

If “London” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in London generally are authorized or obligated by law, regulation or executive order to close and, in the case of any note for which LIBOR is an interest rate basis, is also a day on which dealings in the applicable index currency are transacted in the London interbank market.

If “Mexico City” is included in your pricing supplement under “Business Day”, it means each day on which commercial banks are open for business (including dealings in foreign exchange and foreign currency deposits) in Mexico City.

If “Mumbai” is included in your pricing supplement under “Business Day”, it means each day on which commercial banks are open for business (including dealings in foreign exchange and foreign currency deposits) in Mumbai, India.

If “Munich” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Munich generally are authorized or obligated by law, regulation or executive order to close.

If “New York” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in New York City generally are authorized or obligated by law, regulation or executive order to close.

If “Oslo” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Oslo generally are authorized or obligated by law, regulation or executive order to close.

If “Seoul” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Seoul generally are authorized or obligated by law, regulation or executive order to close.

If “Singapore” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Singapore generally are authorized or obligated by law, regulation or executive order to close.

If “Sydney” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Sydney generally are authorized or obligated by law, regulation or executive order to close.

If “Taipei” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Taipei generally are authorized or obligated by law, regulation or executive order to close. If “Tokyo” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Tokyo generally are authorized or obligated by law, regulation or executive order to close.

If “Toronto” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Toronto generally are authorized or obligated by law, regulation or executive order to close.

If “Wellington” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Wellington generally are authorized or obligated by law, regulation or executive order to close.

If “Zurich” is included in your pricing supplement under “Business Day”, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in Zurich generally are authorized or obligated by law, regulation or executive order to close.

If “U.S. Government Securities” is included in your pricing supplement under “Business Day”, it means each day that is not a Saturday or Sunday or a day on which The Securities Industry and Financial Markets Association’s U.S. holiday schedule recommends that the fixed income departments of its members be closed for the entire day for purposes of trading in U.S. government securities.

Unless otherwise specified in the applicable pricing supplement, for all notes, a business day must be a day on which Euroclear and/or Clearstream, Luxembourg (as the case may be) is open for business. In addition, unless otherwise specified in the applicable pricing supplement, “business day” for your notes will also include:

- (i) in relation to any sum payable in U.S. dollars, New York business days
- (ii) in relation to any sum payable in euro, Euro business days;
- (iii) in relation to any sum payable in Australian dollars, Sydney business days and / or Melbourne business days as specified in the applicable pricing supplement, or if not so selected, as determined by the calculation agent;
- (iv) in relation to any sum payable in New Zealand dollars, Auckland business days and / or Wellington business days as specified in the applicable pricing supplement, or if not so selected, as determined by the calculation agent; and
- (v) in relation to any sum payable in a currency other than euro, U.S. dollars, Australian dollars or New Zealand dollars, a day (other than a Saturday or Sunday) on which commercial banks and foreign exchange markets settle payments generally in the principal financial centre of the relevant currency.

Additional business days not defined above may apply to your note and will be described in the applicable pricing supplement. If any other city is specified in the applicable pricing supplement under “Business Day” and is not described therein, it means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in such city generally are authorized or obligated by law, regulation or executive order to close. Where more than one Business Day is listed, a day must satisfy all of the relevant conditions in order to be a business day for your notes.

Business Day Conventions

As specified in the applicable pricing supplement, the following business day conventions may apply to any note with regard to any relevant date other than one that falls on the stated maturity date or earlier redemption or repayment date:

If the “Business Day Convention” is specified in your pricing supplement to be “Following” or “Following Adjusted”, then, for any interest payment date, other than the stated maturity date or any earlier redemption or repayment date, if such date would otherwise fall on a day that is not a business day, such date will be postponed to the next day that is a business day.

If the “Business Day Convention” is specified in your pricing supplement to be “Modified Following” or “Modified Following Adjusted”, then, for any interest payment date, other than the stated maturity date or any earlier redemption or repayment date, if such date would otherwise fall on a day that is not a business day, such date will be postponed to the next day that is a business day; provided that, if such day would fall in the next succeeding calendar month, the date of payment with respect to such interest payment date will be advanced to the business day immediately preceding such interest payment date.

If the “Business Day Convention” is specified in your pricing supplement to be “Following Unadjusted”, then, for any interest payment date, other than the stated maturity date or any earlier redemption or repayment date, that falls on a day that is not a business day, any payment due on such interest payment date will be postponed to the next day that is a business day; provided that interest due with respect to such interest payment date shall not accrue from and including such interest payment date to and including the date of payment of such interest as so postponed.

If the “Business Day Convention” is specified in your pricing supplement to be “Modified Following Unadjusted”, then, for any interest payment date, other than the stated maturity date or any earlier redemption or repayment date, that falls on a day that is not a business day, any payment due on such interest payment date will be postponed to the next day that is a business day; provided that interest due with respect to such interest payment date shall not accrue from and including such interest payment date to and including the date of payment of such interest as so postponed; and provided further that if such day would fall in the next succeeding calendar month, the date of payment with respect to such interest payment date will be advanced to the business day immediately preceding such interest payment date.

In all cases, if the stated maturity date or any earlier redemption or repayment date with respect to a note falls on a day that is not a business day, any payment of principal, premium, if any, and interest otherwise due on such day will be made on the next succeeding business day, and no interest on such payment shall accrue for the period from and after the stated maturity date, redemption date or repayment date, as the case may be. Notwithstanding the foregoing, if your pricing supplement specifies “Final BDC Procedure” to be “Applicable”, then (i) if the “Business Day Convention” is specified to be “Modified Following Adjusted” or “Modified Following Unadjusted” and if the stated maturity date or any earlier redemption or repayment date, as postponed in accordance with the preceding sentence, would fall in the next succeeding calendar month, the date of payment with respect to such stated maturity date or earlier redemption or repayment date will be advanced to the business day immediately preceding such date and (ii) if the “Business Day Convention” is specified to be “Modified Following Adjusted” or “Following Adjusted”, then interest shall accrue to the stated maturity date or any earlier redemption or repayment date, as adjusted in accordance with the preceding sentence.

Calculation of Interest

Calculations relating to floating rate notes and indexed notes that bear interest will be made by the calculation agent, an institution that we appoint as our agent for this purpose. That institution could include any affiliate of ours, such as Goldman Sachs International. The pricing supplement for a particular note will name the institution that we have appointed to act as the calculation agent for that note as of its original issue date. Unless otherwise specified in the applicable pricing supplement, we have initially appointed Goldman Sachs International as our calculation agent for all the floating rate and indexed notes. We may appoint a different institution to serve as calculation agent from time to time after the original issue date of the notes without your consent and without notifying you of the change. We may also appoint different calculation agents for different notes. Absent manifest error, all determinations of the calculation agent will be final and binding on you and us, without any liability on the part of the calculation agent.

For each floating rate note, the calculation agent will determine, on the corresponding calculation or interest determination date, as described in “—Interest Rates—Floating Rate Notes” below, the interest rate that takes effect on each interest reset date. For each indexed note that bears interest, the calculation agent will determine, on the corresponding calculation or interest determination date the interest rate applicable to each interest period. In addition, the calculation agent will calculate the amount of interest that has accrued during each interest period — *i.e.*, the period from and including the original issue date, or the last date to which interest has been paid or made available for payment, to, but excluding, the payment date.

Day Count Conventions

For each interest period, the calculation agent will calculate the amount of accrued interest as the product of the face amount of the note multiplied by the applicable interest rate multiplied by an accrued interest factor for the interest period. This factor will be determined in accordance with the “Day Count Fraction” specified in the applicable pricing supplement, including the following:

- If “1/1 (ISDA)” is specified, the factor will be equal to 1.
- If “Actual/Actual (ISDA)”, or “Act/Act (ISDA)” is specified, the factor will be equal to the actual number of days in the interest period divided by 365 (or, if any portion of that interest period falls in a leap year, the sum of (1) the actual number of days in that portion of the interest period falling in a leap year divided by 366 and (2) the actual number of days in that portion of the interest period falling in a non-leap year divided by 365).
- If “Actual/Actual (ICMA)” is specified, the factor will be equal to the number of days in the interest period, including February 29 in a leap year, divided by the product of (1) the actual number of days in such interest period and (2) the number of interest periods in the calendar year.
- If “Actual/Actual (Bond)” is specified, the factor will be equal to the number of calendar days in the interest period, divided by the number of calendar days in the interest period multiplied by the number of interest periods in the calendar year.
- If “Actual/Actual (Euro)” is specified, the factor will be equal to the number of calendar days in the interest period divided by 365 or, if the interest period includes February 29, 366.
- If “Actual/365 (Fixed)”, “Act/365 (Fixed)”, “A/365 (Fixed)” or “A365F” is specified, the factor will be equal to the actual number of days in the interest period divided by 365.
- If “Actual/360 (ISDA)”, “Act/360 (ISDA)” or “A/360 (ISDA)” is specified, the factor will be equal to the actual number of days in the interest period divided by 360.
- If “Actual/360 (ICMA)” is specified, the factor will be equal to the number of calendar days in the period, including February 29 in a leap year, divided by 360 days.

- If “30/360 (ISDA)”, “360/360 (ISDA)”, “Bond Basis (ISDA)”, or “30/360” is specified, the factor will be equal to the number of days in the interest period in respect of which payment is being made divided by 360, calculated on a formula basis as follows:

$$\frac{[360 \times (Y(2) - Y(1))] + [30 \times (M(2) - M(1))] + (D(2) - D(1))}{360}$$

where:

“Y(1)” is the year, expressed as a number, in which the first day of the interest period falls;

“Y(2)” is the year, expressed as a number, in which the day immediately following the last day included in the interest period falls;

“M(1)” is the calendar month, expressed as a number, in which the first day of the interest period falls;

“M(2)” is the calendar month, expressed as a number, in which the day immediately following the last day included in the interest period falls;

“D(1)” is the first calendar day, expressed as a number, of the interest period, unless such number would be 31, in which case D(1) will be 30; and

“D(2)” is the calendar day, expressed as a number, immediately following the last day included in the interest period, unless such number would be 31 and D(1) is greater than 29, in which case D(2) will be 30.

- If “30E/360”, “30E/360 (ISDA)” or “Eurobond Basis” is specified, the factor will be equal to the number of days in the interest period in respect of which payment is being made divided by 360, calculated on a formula basis as follows:

$$\frac{[360 \times (Y(2) - Y(1))] + [30 \times (M(2) - M(1))] + (D(2) - D(1))}{360}$$

where:

“Y(1)” is the year, expressed as a number, in which the first day of the interest period falls;

“Y(2)” is the year, expressed as a number, in which the day immediately following the last day included in the interest period falls;

“M(1)” is the calendar month, expressed as a number, in which the first day of the interest period falls;

“M(2)” is the calendar month, expressed as a number, in which the day immediately following the last day included in the interest period falls;

“D(1)” is the first calendar day, expressed as a number, of the interest period, unless (i) such number would be 31, or (ii), if “30E/360 (ISDA)” is specified, that day is the last day of February; in which case D(1) will be 30; and

“D(2)” is the calendar day, expressed as a number, immediately following the last day included in the interest period, unless (i) such number would be 31, or (ii), if “30E/360 (ISDA)” is specified, that day is the last day of February; in which case D(2) will be 30.

Unless otherwise specified in the applicable pricing supplement, commercial paper rate notes, prime rate notes, LIBOR notes, EURIBOR notes, CD rate notes, federal funds rate notes and 11th district cost

of funds rate notes will be subject to the Actual/360 (ISDA) day count convention, and treasury rate notes, CMT rate notes and CMS rate notes will be subject to the Actual/Actual (ISDA) day count convention.

Upon the request of the holder of any floating rate note, the calculation agent will provide the interest rate then in effect, and, if determined, the interest rate that will become effective on the next interest reset date with respect to such floating rate note. The calculation agent's determination of any interest rate will be conclusive for all purposes and binding in the absence of manifest error.

All percentages resulting from any calculations relating to a note will be rounded upward or downward, as appropriate, to the next higher or lower one hundred-thousandth of a percentage point (e.g., 9.876541% (or .09876541) being rounded down to 9.87654% (or .0987654) and 9.876545% (or .09876545) being rounded up to 9.87655% (or .0987655)). All amounts used in or resulting from any calculations will be rounded upward or downward, as appropriate, to the nearest cent, in the case of U.S. dollars and euros, to the nearest Japanese yen (with fractions equal to less than one-half JPY being rounded downward and fractions equal to or greater than one-half JPY being rounded upward) in the case of Japanese yen, or to the nearest corresponding hundredth of a unit, in the case of any other currency, with one-half of a corresponding hundredth of a unit or more being rounded upward. In determining the interest payments on your note, if your pricing supplement specifies the "Calculation Basis" to be "Per Denomination", then interest payments will be calculated on a per denomination basis and if your pricing supplement specifies the "Calculation Basis" to be "Notional", then interest payments will be calculated on the basis of the outstanding face amount of your notes.

In determining the base rate that applies to a floating rate note during a particular interest period, the calculation agent may obtain rate quotes from various banks or dealers active in the relevant market, as described in the following subsections. Those reference banks and dealers may include the calculation agent itself and its affiliates, as well as any agent participating in the distribution of the relevant floating rate notes and its affiliates, and they may include affiliates of The Goldman Sachs Group, Inc.

Role of Calculation Agent and Exchange Rate Agent

All determinations made by the calculation agent and exchange rate agent will be in their sole discretion unless we state otherwise. In the absence of manifest error, those determinations will be conclusive for all purposes and binding on the holder and on us, without any liability on the part of the calculation agent or exchange rate agent, respectively. Calculations relating to floating rate notes and indexed notes and adjustments with respect to any index, stock or basket of stocks or currencies will be made by the calculation agent.

We shall take such action as shall be necessary to ensure that there is at all relevant times a financial institution serving as the calculation agent and exchange rate agent, if applicable, under the notes. We may, in our sole discretion at any time and from time to time, upon written notice to the fiscal agent, but without notice to any holder, terminate the appointment of the calculation agent or exchange rate agent, if applicable, and appoint another agent (including any of our affiliates). Insofar as the notes provide for the calculation agent or exchange rate agent, to obtain information from any institution or other source, the calculation agent or exchange rate agent may do so from any source or sources of the kind contemplated or otherwise permitted, notwithstanding that any one or more of such sources are an agent, affiliate of such agent or affiliate of ours. We assume no responsibility to verify the accuracy of such information.

Change in Law

Following the determination by the calculation agent that a change in law (as defined in the following paragraph) has occurred, the calculation agent will determine, acting in good faith and in a commercially reasonable manner, the appropriate adjustment, if any, to be made to any one or more of the terms of the notes, including, without limitation, any term relating to amounts payable on such notes, as the calculation agent determines appropriate to account for the effect of the change in law, and shall determine the effective date of such adjustments, provided that the calculation agent shall only make such adjustments

in order to preserve as closely as commercially practicable the economic objective and rationale of the notes before such adjustments. We may also redeem, in whole but not in part, any outstanding issuance of notes in the event of a change in law, as described under “Redemption and Repayment — Redemption Upon Change in Law” below.

A change in law means that, on or after the settlement date, as a result of (i) the adoption of, or any change in, any applicable law, rule, regulation, judgment, order, sanction, or directive of any governmental, administrative, legislative or judicial authority (“applicable law”) or (ii) the promulgation of, or any change in, the formal or informal interpretation of any applicable law by a court, tribunal or regulatory authority with competent jurisdiction (including any action by a taxing authority), the calculation agent determines that (a) the performance by us and/or any of our affiliates under such notes, (b) the performance by us and/or any of our affiliates under any related hedge positions (whether with respect to the relevant index to which such notes are linked or any constituent thereof) or (c) the performance by any of our affiliates under such notes had such affiliate been an issuer of the notes or under any related hedge positions (whether with respect to the relevant index to which the notes are linked or any constituent thereof) had such affiliate been a party to any such hedging arrangement, (x) in the case of (a) will, or there is a substantial likelihood in the immediate future that it will, result in a materially increased (including, without limitation, due to any increase in tax liability, decrease in tax benefit, or other adverse effect on its tax position) cost to us or our affiliates in performing our obligations under the notes, or (y) in the case of (a), (b) or (c) has, or there is a substantial likelihood in the immediate future that it will, become unlawful or impractical in whole or in part.

“Hedge positions” means any one or more securities positions, derivatives positions or other instruments or arrangements (howsoever described) purchased, sold, entered into or maintained by the us or any of our affiliates, in order to hedge, or otherwise in connection with, the notes, including, for the avoidance of doubt, any such positions in respect of the assets that may be required to be delivered in connection with any physical settlement of the notes, as specified in the relevant pricing supplement.

Interest Rates

This subsection describes the different kinds of interest rates that may apply to your note, if it bears interest. A note which bears interest at one or more fixed rates for all interest periods is described as a “Fixed Rate Note”. A note which bears interest at one or more floating rates for all interest periods is described as a “Floating Rate Note”. A note which bears interest for some or all interest periods at one or more of the rates determined as described under “ — Indexed Notes” below is described as an “Indexed Note” (although it may bear interest for certain interest periods at a fixed rate or a floating rate).

Fixed Rate Notes

A note of this type will bear interest at a fixed rate, or fixed rates (if different fixed rates are specified for different interest periods), specified in your pricing supplement. This type of note includes notes which bear no interest (which we refer to as “zero coupon notes”) and / or may be instead issued at a price lower than the principal amount (which we refer to as “original issue discount notes” or “discount notes”) and / or pay a multiple of the face amount at maturity. See “ — Features Common to All Notes — Original Issue Discount Notes” above for more information about zero coupon and other original issue discount notes.

Each fixed rate note, except any zero coupon note, will bear interest from its original issue date or from the most recent interest payment date to which interest on the note has been paid or made available for payment. Interest will accrue on the principal of a fixed rate note at a fixed rate per annum, or at fixed rates per annum, stated in the note and the applicable pricing supplement, until the principal is paid or made available for payment or the note is converted or exchanged. Your pricing supplement will describe the interest periods, the interest rates applicable to each interest period if the interest rate changes over the term of the note, and relevant interest payment dates on which interest on fixed rate notes will be

payable. Each payment of interest due on an interest payment date or at maturity will include interest accrued from and including the last date to which interest has been paid or made available for payment, or from the issue date if none has been paid, or made available for payment, to, but excluding, the interest payment date, the date of maturity, or the relevant early redemption date, in each case subject to the business day convention. We will compute interest on fixed rate notes on the basis of a 360-day year of twelve 30-day months (30/360 (ISDA) day count convention), unless your pricing supplement provides that we will compute interest on a different basis. We will pay interest on each interest payment date and at maturity as described under “— Payment Mechanics for Notes” below.

If your note is a zero coupon note or an original issue discount note, the applicable pricing supplement may specify the original issue discount and the accreted value. The accreted value will be (1) as of any date prior to the stated maturity date, an amount equal to the *sum of* (A) the original issue price of your note *plus* (B) the portion of the excess of the amount payable at maturity of your note over the original issue price which shall have been accreted from the issue price on a daily basis and compounded annually on the date specified in the pricing supplement, up to and including the stated maturity date, at a rate per annum equal to the accretion rate specified in the applicable pricing supplement from the original issue date, computed on the basis of a 360-day year consisting of twelve 30-day calendar months *plus* (C) any accrued but unpaid interest as of such date; and (2) as of any date on or after the stated maturity date, the amount payable at maturity (final redemption amount) on your notes *plus* accrued but unpaid interest as of such date.

All references in this document to “ISDA” refer to the 2006 ISDA Definitions, as published by the International Swaps and Derivatives Association, Inc. and as amended and updated as at the date of this offering circular. Investors should consult the Issuer in case they require a copy of the 2006 ISDA Definitions.

Floating Rate Notes

*In this subsection, we use several specialized terms relating to the manner in which floating interest rates are calculated. These terms appear in **bold, italicized** type the first time they appear, and we define these terms in “— Special Rate Calculation Terms” at the end of this subsection.*

A note of this type will bear interest at rates that are determined by reference to an interest rate formula specified in the pricing supplement. In some cases, the rates may be adjusted by adding or subtracting a spread or multiplying by a spread multiplier and may be subject to a minimum rate or a maximum rate, as described in greater detail below. If your note is a floating rate note, the formula and any adjustments that apply to the interest rate will be specified in your pricing supplement.

Each floating rate note will bear interest from its original issue date or from the most recent interest payment date to which interest on the note has been paid or made available for payment. Interest will accrue on the principal of a floating rate note at the annual rate determined according to the interest rate formula stated in the note and the applicable pricing supplement, until the principal is paid or made available for payment. We will pay interest on each interest payment date and at maturity as described under “— Payment Mechanics for Notes” below.

Base Rates

We currently expect to issue floating rate notes that bear interest at rates based on one or more of the following base rates:

- the commercial paper rate;
- the prime rate;

- LIBOR;
- EURIBOR;
- the treasury rate;
- the CMT rate;
- the CD rate;
- the USD CMS rate;
- Euro interest rate swap
- JPY swap rate
- USD swap rate
- AUD BBSW rate
- the federal funds rate;
- the 11th district cost of funds rate; and/or
- SGD SOR rate.

We describe each of these base rates in further detail below in this subsection. If you purchase a floating rate note, your pricing supplement will specify the type of base rate that applies to your note. A note may bear interest at any of the base rates specified above or at any other rate, as specified in the applicable pricing supplement.

Initial Base Rate

For any floating rate note, the base rate in effect from and including the original issue date to but excluding the first interest reset date will be the initial base rate. Unless otherwise specified in your pricing supplement, the initial base rate will be the interest rate determined on the first interest determination date.

Spread or Spread Multiplier

In some cases, the base rate for a floating rate note may be adjusted:

- by adding or subtracting a percentage or a specified number of basis points called the spread (with one basis point being 0.01%);
- by multiplying the base rate by a specified percentage, called the spread multiplier, which may be less than one hundred percent or may be negative; or
- by a combination of the foregoing.

If you purchase a floating rate note, your pricing supplement will specify whether a spread or spread multiplier will apply to your note and, if so, the amount of the spread or spread multiplier.

Maximum and Minimum Rates

The actual interest rate, after being adjusted by the spread or spread multiplier, may also be subject to either or both of the following limits:

- a maximum rate — *i.e.*, a specified upper limit that the actual interest rate in effect at any time may not exceed; and/or

- a minimum rate — *i.e.*, a specified lower limit that the actual interest rate in effect at any time may not fall below.

If you purchase a floating rate note, your pricing supplement will specify whether a maximum rate and/or minimum rate will apply to your note and, if so, what those rates are.

Whether or not a maximum rate applies, the interest rate on a floating rate note will in no event be higher than the maximum rate permitted by New York law, as it may be modified by U.S. law of general application. Under current New York law, the maximum rate of interest, with some exceptions, for any loan in an amount less than \$2,500,000 is 25% per year on a simple interest basis. No limits apply to loans of \$2,500,000 or more.

The rest of this subsection describes how the interest rate and the interest payment dates will be determined, and how interest will be calculated, on a floating rate note.

Interest Reset Dates

The rate of interest on a floating rate note will be reset, by the calculation agent described below, daily, weekly, monthly, quarterly, semi-annually or annually (each, an “interest reset period”). The date on which the interest rate resets and the reset rate becomes effective is called the interest reset date. Except as otherwise specified in the applicable pricing supplement, the interest reset date will be as follows:

- for floating rate notes that reset daily, each business day;
- for floating rate notes that reset weekly and are not treasury rate notes, the Wednesday of each week;
- for treasury rate notes that reset weekly, the Tuesday of each week, except as otherwise described in the next to last paragraph under “— Interest Determination Dates” below;
- for floating rate notes that reset monthly, the third Wednesday of each month;
- for floating rate notes that reset quarterly, the third Wednesday of March, June, September and December of each year;
- for floating rate notes that reset semi-annually, the third Wednesday of each of two months of each year as specified in the applicable pricing supplement; and
- for floating rate notes that reset annually, the third Wednesday of one month of each year as specified in the applicable pricing supplement.

For a floating rate note, the interest rate in effect on any particular day will be the interest rate determined with respect to the latest interest reset date that occurs on or before that day. There are several exceptions, however, to the reset provisions described above.

The base rate in effect from and including the original issue date to, but excluding, the first interest reset date will be the initial base rate. For floating rate notes that reset daily or weekly, the base rate in effect for each day following the second business day before an interest payment date to, but excluding, the interest payment date, and for each day following the second business day before the maturity date to, but excluding, the maturity date, will be the base rate in effect on that second business day.

Unless otherwise specified in the applicable pricing supplement, if any interest reset date would otherwise be a day that is not a business day, the interest reset date will be adjusted in accordance with the applicable business day convention.

Interest Determination Dates

The interest rate that takes effect on an interest reset date will be determined by the calculation agent by reference to a particular date called an interest determination date. Except as otherwise specified in the applicable pricing supplement:

- For all floating rate notes other than LIBOR notes, EURIBOR notes, treasury rate notes and 11th district cost of funds rate notes, the interest determination date relating to a particular interest reset date will be the second business day before the interest reset date.
- For LIBOR notes, the interest determination date relating to a particular interest reset date will be the second London business day preceding the interest reset date, unless the ***index currency*** is pounds sterling, in which case the interest determination date will be the interest reset date. We refer to an interest determination date for a LIBOR note as a LIBOR interest determination date.
- For EURIBOR notes, the interest determination date relating to a particular interest reset date will be the second euro business day preceding the interest reset date. We refer to an interest determination date for a EURIBOR note as a EURIBOR interest determination date.
- For treasury rate notes, the interest determination date relating to a particular interest reset date, which we refer to as a treasury interest determination date, will be the day of the week in which the interest reset date falls on which treasury bills — *i.e.*, direct obligations of the U.S. government — would normally be auctioned. Treasury bills are usually sold at auction on the Monday of each week, unless that day is a legal holiday, in which case the auction is usually held on the following Tuesday, except that the auction may be held on the preceding Friday. If as the result of a legal holiday an auction is held on the preceding Friday, that Friday will be the treasury interest determination date relating to the interest reset date occurring in the next succeeding week. If the auction is held on a day that would otherwise be an interest reset date, then the interest reset date will instead be the first business day following the auction date.
- For 11th district cost of funds rate notes, the interest determination date relating to a particular interest reset date will be the last working day, in the first calendar month before that interest reset date, on which the Federal Home Loan Bank of San Francisco publishes the monthly average cost of funds paid by member institutions of the Eleventh Federal Home Loan Bank District for the second calendar month before that interest reset date. We refer to an interest determination date for an 11th district cost of funds rate note as an 11th district interest determination date.

The interest determination date for any other floating rate note will be as specified in your pricing supplement.

Unless otherwise specified in the applicable pricing supplement, if any interest determination date would otherwise be a day that is not a business day, the interest determination date will be adjusted in accordance with the applicable business day convention.

Interest Calculation Dates

As described above, the interest rate that takes effect on a particular interest reset date will be determined by reference to the corresponding interest determination date. Except for LIBOR notes and EURIBOR notes, however, the determination of the rate will actually be made on a day no later than the corresponding interest calculation date. Unless otherwise specified in the applicable pricing supplement, the interest calculation date will be the earlier of the following:

- the tenth calendar day after the interest determination date or, if that tenth calendar day is not a business day, the next succeeding business day; or
- the business day immediately preceding the interest payment date or the maturity date, whichever is the day on which the next payment of interest will be due.

The calculation agent need not wait until the relevant interest calculation date to determine the interest rate if the rate information it needs to make the determination is available from the relevant sources sooner.

Interest Payment Dates

The interest payment dates for a floating rate note will depend on when the interest rate is reset and, unless we say otherwise in the applicable pricing supplement, will be as follows:

- for floating rate notes that reset daily, weekly or monthly, on the third Wednesday of each month or the third Wednesday of March, June, September and December of each year, as specified in the applicable pricing supplement;
- for floating rate notes that reset quarterly, on the third Wednesday of March, June, September and December of each year;
- for floating rate notes that reset semi-annually, on the third Wednesday of the two months of each year specified in the applicable pricing supplement; or
- for floating rate notes that reset annually, on the third Wednesday of the month specified in the applicable pricing supplement.

Regardless of these rules, if a note is originally issued after the regular record date and before the date that would otherwise be the first interest payment date, the first interest payment date will be the date that would otherwise be the second interest payment date. We define “regular record date” under “— Payment Mechanics for Notes — Who Receives Payment?” below. Unless otherwise specified in the applicable pricing supplement, if any interest payment date would otherwise be a day that is not a business day, the interest payment date will be adjusted in accordance with the applicable business day convention.

Australian Dollar Bills of Exchange Rate Notes

If you purchase an Australian dollar bills of exchange rate note, your note will bear interest at a base rate equal to the average mid rate for Australian dollar bills of exchange and adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The average mid rate for Australian dollar bills of exchange for a reset date will be the average mid rate for Australian dollar bills of exchange having a tenor of the designated maturity, which appears on the Reuters Screen BBSW page (or any successor or replacement service or page) at approximately 10:10 a.m., Sydney time, on that reset date.

If such rate does not appear on the Reuters Screen BBSW page (or any successor or replacement service or page) by 10:30 a.m., Sydney time, on the reset date, then the rate for that reset date will be the arithmetic mean of the mid of the bid and ask rates quoted by five of the financial institutions authorized to quote on the Reuters Screen BBSW Page to the calculation agent. The quotations will be for rates which the five of the financial institutions authorized to quote on the Reuters Screen BBSW Page quoted or would have quoted at approximately 10:00 a.m., Sydney time, on the reset date for Australian dollar bills of exchange having a tenor of the designated maturity and of the type specified for the purpose of quoting on the Reuters Screen BBSW Page. If in respect of a reset date the rate for that reset date cannot be determined in accordance with the foregoing procedures then the rate for that reset date will be the rate determined by the calculation agent having regard to comparable indices then available. The rate calculated or determined by the calculation agent will be expressed as a percentage rate per annum and will be rounded up, if necessary, to the next higher one tenthousandth of a percentage point (0.0001%).

Commercial Paper Rate Notes

If you purchase a commercial paper rate note (“Base Rate”: Commercial Paper), your note will bear interest at a base rate equal to the commercial paper rate and adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The commercial paper rate will be the **money market yield** of the rate, for the relevant interest determination date, for commercial paper having the **index maturity** specified in your pricing supplement, as published in **H.15 daily update** opposite the heading “Commercial Paper — Nonfinancial” (or such other recognized electronic source as the calculation agent may determine in its sole discretion). If the commercial paper rate cannot be determined as described above, the following procedures will apply:

- If the rate described above does not appear in H.15 daily update or another recognized electronic source determined by the calculation agent at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, the commercial paper rate will be the money market yield of the arithmetic mean of the following offered rates for U.S. dollar commercial paper that has the relevant index maturity and is placed for an industrial issuer whose bond rating is “AA”, or the equivalent, from a nationally recognized rating agency: the rates offered as of 11:00 A.M., New York City time, on the relevant interest determination date, by three leading U.S. dollar commercial paper dealers in New York City selected by the calculation agent.
- If fewer than three dealers selected by the calculation agent are quoting as described above, the commercial paper rate for the new interest period will be the commercial paper rate in effect for the prior interest period. If the initial base rate has been in effect for the prior interest period, however, it will remain in effect for the new interest period.

CD Rate Notes

If you purchase a CD rate note (“Base Rate”: CD rate), your note will bear interest at a base rate equal to the CD rate and adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The CD rate will be the rate, on the relevant interest determination date, for negotiable U.S. dollar certificates of deposit having the index maturity specified in your pricing supplement, as published by the Federal Reserve System Board of Governors, or its successor, on its website or in another recognized electronic source, in each case as determined by the calculation agent in its sole discretion. If the CD rate cannot be determined in this manner, the following procedures will apply:

- If the rate described above does not appear on the website of the Federal Reserve System Board of Governors or its successor or another recognized electronic source
- determined by the calculation agent at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, the CD rate will be the arithmetic mean of the following secondary market offered rates for negotiable U.S. dollar certificates of deposit of major U.S. money center banks with a remaining maturity closest to the specified index maturity and in a representative amount: the rates offered as of 10:00 A.M., New York City time, on the relevant interest determination date, by three leading nonbank dealers in negotiable U.S. dollar certificates of deposit in New York City, as selected by the calculation agent.
- If fewer than three dealers selected by the calculation agent are quoting as described in the prior paragraph, the CD rate in effect for the new interest period will be the CD rate in effect for the prior interest period. If the initial base rate has been in effect for the prior interest period, however, it will remain in effect for the new interest period.

CMT Rate Notes

If you purchase a CMT rate note (“Base Rate”: CMT rate), your note will bear interest at a base rate equal to the CMT rate and adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The manner in which the CMT rate is determined for the relevant interest reset date will depend on the designated CMT Reuters screen page that is specified for your notes in the applicable pricing supplement. If no designated CMT Reuters screen page is specified, Reuters screen FRBCMT page (or any successor or replacement service or page) will be the designated CMT Reuters screen page for your notes.

- If the designated CMT Reuters screen page for your notes is FRBCMT, the CMT rate for the relevant interest reset date will be the yield for Treasury securities at “constant maturity” for a period of the designated CMT index maturity as set forth in H.15 daily update under the caption “Treasury constant maturities” (or such other recognized electronic source as the calculation agent may determine in its sole discretion), as such yield is displayed on the designated CMT Reuters screen page (or any successor or replacement service or page) on the CMT interest determination date. If the applicable rate described above is not displayed on the designated CMT Reuters screen page, then the CMT rate will be the treasury constant maturity rate for the designated CMT underlying maturity as published in H.15 daily update under the caption “Treasury constant maturities”.
- If the rate described in the preceding paragraph does not appear in H.15 daily update or another recognized electronic source determined by the calculation agent, then the CMT rate for the relevant interest reset date will be the treasury constant maturity rate for the designated CMT underlying maturity that:
 - is published by the Board of Governors of the Federal Reserve System or the U.S. Department of the Treasury; and
 - is determined by the calculation agent to be comparable to the applicable rate that would otherwise have been published in H.15 daily update.
- If, on the relevant CMT interest determination date, the rate described in the preceding paragraph is not published by the Board of Governors of the Federal Reserve System or the U.S. Department of Treasury, then the CMT rate for the relevant interest reset date will be the yield to maturity of the arithmetic mean of the secondary market bid rates for the most recently issued U.S. Treasury securities having an original maturity of approximately the designated CMT underlying maturity and a remaining term to maturity of not less than the designated CMT underlying maturity minus one year, and in a representative amount, as of approximately 3:30 P.M., New York City time, on the relevant CMT interest determination date, quoted by three primary U.S. government securities dealers in New York City selected by the calculation agent. In selecting these bid rates, the calculation agent will request quotations from five primary dealers and will disregard the highest quotation — or, if there is equality, one of the highest — and the lowest quotation — or, if there is equality, one of the lowest. If fewer than five but more than two such bid rates are provided, the CMT rate will be based on the arithmetic mean of the bid prices provided, and neither the highest nor lowest of such quotations will be eliminated.
- If the calculation agent is unable to obtain three quotations of the kind described in the preceding paragraph, the CMT rate for the relevant interest reset date will be the yield to maturity of the arithmetic mean of the secondary market bid rates for U.S. Treasury securities with an original maturity longer than the designated CMT index maturity, with a remaining term to maturity closest to the designated CMT index maturity and in a representative amount, as of approximately 3:30 P.M., New York City time, on the relevant CMT interest determination date, of three primary U.S. government securities dealers in New York City selected by the calculation agent. In selecting these bid rates, the calculation agent will request quotations from five of these primary dealers and will disregard the highest quotation — or, if there is equality, one of the highest — and the lowest quotation — or, if there is equality, one of the lowest. If fewer than five but more than two of these primary dealers are quoting, then the CMT rate for the relevant interest reset date will be based on the arithmetic mean of the bid rates so obtained, and neither the highest nor the lowest of those quotations will be disregarded. If two U.S. Treasury securities with an original maturity longer than the designated CMT underlying maturity have remaining terms to maturity that are

equally close to the designated CMT underlying maturity, the calculation agent will obtain quotations for the U.S. Treasury securities with the shorter original term to maturity.

- If two or fewer primary dealers selected by the calculation agent are quoting as described in the preceding paragraph, the CMT rate for the relevant interest reset date will be the rate determined by the calculation agent in its sole discretion, after consulting such sources as it deems comparable to any of the foregoing quotations or display page, or any such source as it deems reasonable from which to estimate the rate for U.S. Treasury securities at constant maturity or any of the foregoing bid rates. If the designated CMT Reuters screen page for your notes is FEDCMT, the CMT rate for the relevant interest reset date will be the one-week average yield for Treasury securities at “constant maturity” for a period of the designated CMT index maturity as published by the Federal Reserve System Board of Governors, or its successor, on its website or in another recognized electronic source, in each case as determined by the calculation agent in its sole discretion for the week preceding the relevant interest reset date, as such average is displayed on the designated CMT Reuters screen page for the week preceding the relevant interest reset date.
- If the applicable average described above is not displayed on the designated CMT Reuters screen page, then the CMT rate for the relevant interest reset date will be the one-week average yield for Treasury securities at “constant maturity” for a period of the designated CMT index maturity and for the week preceding the relevant interest reset date as published by the Federal Reserve System Board of Governors, or its successor, on its website or in another recognized electronic source, in each case as determined by the calculation agent in its sole discretion.
- If the applicable average described in the preceding paragraph does not appear on the website of the Federal Reserve System Board of Governors or in another recognized electronic source, in each case as determined by the calculation agent in its sole discretion then the CMT rate for the relevant interest reset date will be the one-week average yield for Treasury securities at “constant maturity” for a period equal to the designated CMT index maturity as otherwise announced by the Federal Reserve Bank of New York for the week preceding the relevant interest reset date.
- If for the week preceding the relevant interest reset date the Federal Reserve Bank of New York does not publish a one-week average yield for Treasury securities at “constant maturity” for a period equal to the designated CMT index maturity for the preceding week, then the CMT rate for the relevant interest reset date will be the yield to maturity of the arithmetic mean of the secondary market bid rates for the most recently issued U.S. Treasury securities having an original maturity of approximately the designated CMT underlying maturity and a remaining term to maturity of not less than the designated CMT underlying maturity minus one year, and in a representative amount, as of approximately 3:30 P.M., New York City time, on the relevant CMT interest determination date, quoted by three primary U.S. government securities dealers in New York City selected by the calculation agent. In selecting these bid rates, the calculation agent will request quotations from five primary dealers and will disregard the highest quotation — or, if there is equality, one of the highest — and the lowest quotation — or, if there is equality, one of the lowest. If fewer than five but more than two such bid rates are provided, the CMT rate will be based on the arithmetic mean of the bid prices provided, and neither the highest nor lowest of such quotations will be eliminated.
- If the calculation agent is unable to obtain three quotations of the kind described in the preceding paragraph, the CMT rate for the relevant interest reset date will be the yield to maturity of the arithmetic mean of the secondary market bid rates for U.S. Treasury securities with an original maturity longer than the designated CMT underlying maturity, with a remaining term to maturity closest to the designated CMT index maturity and in a representative amount, as of approximately 3:30 P.M., New York City time, on the relevant CMT interest determination date, of three primary U.S. government securities dealers in New York City selected by the calculation agent. In selecting these bid rates, the calculation agent will request quotations from five of these primary dealers and will disregard the highest quotation — or, if there is equality, one of the highest — and the lowest quotation — or, if there is equality, one of the lowest. If fewer than five but more than two of these primary dealers are quoting, then the CMT rate for the relevant

interest reset date will be based on the arithmetic mean of the bid rates so obtained, and neither the highest nor the lowest of those quotations will be disregarded. If two U.S. Treasury securities with an original maturity longer than the designated CMT underlying maturity have remaining terms to maturity that are equally close to the designated CMT underlying maturity, the calculation agent will obtain quotations for the U.S. Treasury securities with the shorter original term to maturity.

- If two or fewer primary dealers selected by the calculation agent are quoting as described in the preceding paragraph, the CMT rate for the relevant interest reset date will be the rate determined by the calculation agent in its sole discretion, after consulting such sources as it deems comparable to any of the foregoing quotations or display page, or any such source as it deems reasonable from which to estimate the one-week average for U.S. Treasury securities at constant maturity or any of the foregoing bid rates.

EURIBOR Notes

If you purchase a EURIBOR note, your note will bear interest at a base rate equal to the interest rate for deposits in euros designated as “EURIBOR” and currently administered by the European Money Markets Institute (or its successor) for purposes of compiling and publishing that rate. In addition, the EURIBOR base rate will be adjusted by the spread or spread multiplier, if any, specified in your pricing supplement. EURIBOR will be determined in the following manner:

EURIBOR for the relevant interest reset date will be the offered rate for deposits in euros having the underlying maturity specified in your pricing supplement, as that rate appears on the Reuters screen EURIBOR01 page (or any successor or replacement service or page) as of approximately 11:00 A.M., Brussels time, on the relevant EURIBOR interest determination date.

If the calculation agent determines on the relevant interest determination date that the EURIBOR base rate has been discontinued, then the calculation agent will use a substitute or successor base rate that it has determined in its sole discretion is most comparable to the EURIBOR base rate, provided that if the calculation agent determines there is an industry-accepted successor base rate, then the calculation agent shall use such successor base rate. If the calculation agent has determined a substitute or successor base rate in accordance with the foregoing, the calculation agent in its sole discretion may determine the business day convention, the definition of business day and the interest determination date to be used and any other relevant methodology for calculating such substitute or successor base rate, including any adjustment factor needed to make such substitute or successor base rate comparable to the EURIBOR base rate, in a manner that is consistent with industry-accepted practices for such substitute or successor base rate.

Unless the calculation agent determines to use a substitute or successor base rate as so provided in the preceding paragraph, the following will apply:

- If the rate described above does not so appear on the Reuters screen EURIBOR01 page (or any successor or replacement service or page), EURIBOR will be determined on the basis of the rates at which deposits in euros are offered by four major banks in the euro-zone interbank market, at approximately 11:00 A.M., Brussels time, on the relevant EURIBOR interest determination date, to prime banks in the euro-zone interbank market for a period of the specified underlying maturity commencing on the relevant interest reset date and in a representative amount assuming an Actual/360 day count basis. The calculation agent will request the principal euro-zone office of each of these four banks to provide a quotation of its rate. If at least two quotations are provided, EURIBOR for the relevant interest reset date will be the arithmetic mean of the quotations.
- If fewer than two quotations are provided as described in the preceding paragraph, EURIBOR for the relevant interest reset date will be the arithmetic mean of the rates quoted by major banks in the euro-zone, selected by the calculation agent, at approximately 11:00 A.M., Brussels time, on

that interest reset date, for loans of euros to leading European banks for the specified underlying maturity, beginning on the relevant interest reset date, and in a representative amount.

- If no quotation is provided as described in the preceding paragraph, then the calculation agent, after consulting such sources as it deems comparable to any of the foregoing quotations or display page, or any such source as it deems reasonable from which to estimate EURIBOR or any of the foregoing lending rates, shall determine EURIBOR for that interest reset date in its sole discretion.

Euro Interest Rate Swap Notes

If you purchase a Euro interest rate swap note, your note will bear interest at a base rate equal to the annual swap rate for Euro swap transactions, adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The annual swap rate for euro swap transactions for a reset date (the “Euro Interest Swap Rate”) will be the annual swap rate for euro swap transactions with a maturity of the Designated Maturity, expressed as a percentage, which appears on the Reuters Screen ICESWAP2 Page (or any successor or replacement service or page) under the heading “EURIBOR BASIS - EUR” and above the caption “11:00AM FRANKFURT” as of 11:00 a.m., Frankfurt time, on the day that is two Euro Business Days preceding that Reset Date.

If such rate does not appear on the Reuters Screen ICESWAP2 Page (or any successor or replacement service or page), the rate for that reset date will be a percentage determined on the basis of the mid-market annual swap rate quotations provided by the five leading swap dealers in the interbank market, at approximately 11:00 a.m., London time on the day that is two Euro business days preceding that reset date. For this purpose, the mid-market annual swap rate means the arithmetic mean of the bid and offered rates for the annual fixed leg, calculated on a 30/360 day count basis, of a fixed-for-floating euro interest rate swap transaction with a term equal to the designated maturity commencing on that reset date and in a representative amount with an acknowledged dealer of good credit in the swap market, where the floating leg, calculated on an Actual/360 day count basis, is equivalent to the annual swap rate for euro swap transactions with a maturity of six months, expressed as a percentage, which appears on the Reuters Screen ICESWAP2 Page (or any successor or replacement service or page) under the heading “EURIBOR BASIS - EUR” and above the caption “11:00AM FRANKFURT” as of 11:00 a.m., Frankfurt time, on the day that is two Euro business days preceding that Reset Date. The calculation agent will request the principal office of each of the five leading swap dealers in the interbank market to provide a quotation of its rate. If at least three quotations are provided, the rate for that reset date will be the arithmetic mean of the quotations, eliminating the highest quotation (or, in the event of equality, one of the highest) and the lowest quotation (or, in the event of equality, one of the lowest).

If two or fewer quotations are provided as described in the preceding paragraph, then the calculation agent, after consulting such sources as it deems comparable to any of the foregoing quotations or display page, or any such source as it deems reasonable from which to estimate the Euro Interest Swap Rate, shall determine the Euro Interest Swap Rate for that reset date in its sole discretion.

Federal Funds Rate Notes

If you purchase a federal funds rate note (“Base Rate”: FEDFUNDS), your note will bear interest at a base rate equal to the federal funds (effective) rate or the federal funds open rate, as specified in the applicable pricing supplement and adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The federal funds rate will be the rate for U.S. dollar federal funds on the relevant interest reset date, as set forth in H.15 daily update opposite the heading “Federal funds (effective)” (or any successor or replacement service or page) for that day.

- If the rate described above does not appear in H.15 daily update at approximately 5:00 P.M., New York City time, on the day that is one New York City banking day following the relevant interest reset date, then the federal funds (effective) rate, for the relevant interest reset date, will be the rate described above as otherwise published by the Federal Reserve System Board of Governors, or its successor, on its website or in another recognized electronic source, in each case as determined by the calculation agent in its sole discretion.
- If the rate cannot be determined as described in the preceding paragraphs, then the federal funds (effective) rate for the relevant interest reset date will be the rate for the first day preceding the relevant interest reset date for which such rate is set forth in H.15(519) opposite the caption "Federal funds (effective)".

JPY Swap Rate Notes

If you purchase a JPY swap rate note, your note will bear interest at a base rate equal to the JPY swap rate and adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The JPY swap rate for the relevant interest reset date will be the swap rate for Yen swap transactions with a maturity of the Designated Maturity, expressed as a percentage, which appears on the Reuters screen 17143 Page (or any successor or replacement service or page) as of 10:00 a.m., Tokyo time, on the day that is two Tokyo business days preceding the reset date.

If such rate does not appear on the Reuters Screen 17143 Page, (or any successor or replacement service or page), the rate for a reset date will be a percentage determined on the basis of the mid-market semi-annual swap rate quotations provided by the five leading swap dealers in the interbank market at approximately 10:00 a.m., Tokyo time, on the day that is two Tokyo business days preceding that reset date. For this purpose, the mid-market semi-annual swap rate means the arithmetic mean of the bid and offered rates for the semi-annual fixed leg, calculated on an Actual/Actual day count basis, of a fixed-for-floating Yen interest rate swap transaction with a term equal to the designated maturity commencing on that reset date and in a representative amount with an acknowledged dealer of good credit in the swap market, where the floating leg, calculated on an Actual/360 day count basis, is equivalent to the rate for deposits in Yen for a period with a designated maturity of six months which appears on the Reuters Screen 3750 Page (or any successor or replacement service or page) as of 11:00 a.m., London time, on the day that is two London banking days preceding that reset date. If such rate does not appear on the Reuters Screen 3750 Page, (or any successor or replacement service or page), the applicable floating rate for that reset date will be determined on the basis of the rates at which deposits in Yen are offered by four major banks in the London interbank market at approximately 11:00 a.m., London time, on the day that is two London banking days preceding that reset date to prime banks in the London interbank market for a period with a designated maturity of six months commencing on that reset date and in a representative amount. The calculation agent will request the principal London office of four major banks in the London interbank market to provide a quotation of its rate. If at least two quotations are provided, the rate for that reset date will be the arithmetic mean of the quotations. If fewer than two quotations are provided as requested, the rate for that reset date will be the arithmetic mean of the rates quoted by major banks in Tokyo, selected by the calculation agent, at approximately 11:00 a.m., Tokyo time, on that reset date for loans in Yen to leading European banks for a period with a designated maturity of six months commencing on that reset date and in a representative amount.

The calculation agent will request the principal office of the five leading swap dealers in the interbank market to provide a quotation of its rate. If at least three quotations are provided, the rate for that reset date will be the arithmetic mean of the quotations, eliminating the highest quotation (or, in the event of equality, one of the highest) and the lowest quotation (or, in the event of equality, one of the lowest).

If two or fewer quotations are provided as described in the preceding paragraph, then the calculation agent, after consulting such sources as it deems comparable to any of the foregoing quotations or display page, or any such source as it deems reasonable from which to estimate the JPY Swap Rate, shall determine the JPY Swap Rate for that reset date in its sole discretion.

LIBOR Notes

If you purchase a LIBOR note, your note will bear interest at a base rate equal to LIBOR, which will be the London interbank offered rate for deposits in U.S. dollars or any other underlying currency, as specified in your pricing supplement. In addition, the applicable LIBOR base rate will be adjusted by the spread or spread multiplier, if any, specified in your pricing supplement. LIBOR will be determined in the following manner:

LIBOR will be the offered rate appearing on the Reuters screen LIBOR01 page (or any successor or replacement service or page) as of 11:00 A.M., London time, on the relevant LIBOR interest determination date, for deposits of the relevant underlying currency having the relevant underlying maturity beginning on the relevant interest reset date. Your pricing supplement will indicate the underlying currency and the underlying maturity that apply to your LIBOR note.

If the calculation agent determines on the relevant interest determination date that the LIBOR base rate has been discontinued, then the calculation agent will use a substitute or successor base rate that it has determined in its sole discretion is most comparable to the LIBOR base rate, provided that if the calculation agent determines there is an industry-accepted successor base rate, then the calculation agent shall use such successor base rate. If the calculation agent has determined a substitute or successor base rate in accordance with the foregoing, the calculation agent in its sole discretion may determine the business day convention, the definition of business day and the interest determination date to be used and any other relevant methodology for calculating such substitute or successor base rate, including any adjustment factor needed to make such substitute or successor base rate comparable to the LIBOR base rate, in a manner that is consistent with industry-accepted practices for such substitute or successor base rate. Unless the calculation agent determines to use a substitute or successor base rate as so provided, the following will apply:

- If the rate described above does not so appear on the Reuters screen LIBOR01 page (or any successor or replacement service or page), then LIBOR will be determined on the basis of the rates, at which deposits in U.S. dollars or any other underlying currency, as specified in your pricing supplement, are offered by four major banks in the London interbank market selected by the calculation agent at approximately 11:00 A.M., London time, on the relevant LIBOR interest determination date, to prime banks in the London interbank market for a period of the specified index maturity, beginning on the relevant interest reset date, and in a representative amount. The calculation agent will request the principal London office of each of these major banks to provide a quotation of its rate. If at least two quotations are provided, LIBOR for the relevant interest reset date will be the arithmetic mean of the quotations.
- If fewer than two of the requested quotations described above are provided, LIBOR for the relevant interest reset date will be the arithmetic mean of the rates quoted by major banks in New York City or, if the specified underlying currency is not U.S. dollars, in the principal financial center for the country issuing the index currency, selected by the calculation agent, at approximately 11:00 A.M., New York City time (or the time in the relevant principal financial center), on the relevant interest reset date, for loans in U.S. dollars (or the underlying currency) to leading European banks for a period of the specified index maturity, beginning on the relevant interest reset date, and in a representative amount.
- If no quotation is provided as described in the preceding paragraph, then the calculation agent, after consulting such sources as it deems comparable to any of the foregoing quotations or display page, or any such source as it deems reasonable from which to estimate LIBOR or any of the foregoing lending rates, shall determine LIBOR for that interest reset date in its sole discretion.

Prime Rate Notes

If you purchase a prime rate note ("Base Rate": Prime Rate), your note will bear interest at a base rate equal to the prime rate and adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The prime rate will be the rate, for the relevant interest reset date, published in H.15 daily update opposite the heading "Bank prime loan" (or in another recognized electronic source determined by the calculation agent in its sole discretion).

- If the rate described above does not appear in H.15 daily update or another recognized electronic source determined by the calculation agent by approximately 5:00 P.M., New York City time, on the day that is one New York City banking day following the relevant interest reset date, then the prime rate for the relevant interest reset date will be the rate for the day first preceding the relevant interest reset date for which such rate is set forth in H.15 daily update opposite the caption "Bank prime rate".

Treasury Rate Notes

If you purchase a treasury rate note ("Base Rate": US Treasury), your note will bear interest at a base rate equal to the treasury rate and adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The treasury rate for the relevant interest reset date will be the rate for U.S. government treasury bills, as that rate appears on the Reuters screen USAUCTION10 page (or any successor or replacement service or page) or USAUCTION11 page (or any successor or replacement service or page) on the relevant treasury interest determination date, opposite the underlying maturity specified in your pricing supplement under the heading "INVEST RATE".

- If the rate described above does not appear on either page on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, but U.S. government treasury bills having the specified index maturity have been auctioned during the relevant interest period, then the treasury rate will be the bond equivalent yield of the rate, for the relevant interest reset date, as published in H.15 daily update, or another recognized electronic source used for displaying that rate, for that day and for the specified underlying maturity, under a heading indicating that such rate is the "auction high" rate for United States treasury bills
- If the rate cannot be determined as described in the preceding paragraph, then the treasury rate will be the bond equivalent yield of the auction rate for treasury bills with a remaining maturity equal to the specified underlying maturity as announced by the United States Treasury.
- If no such auction is held for the relevant week, then the treasury rate will be the bond equivalent yield of the rate, for the relevant treasury interest reset date and for treasury bills having the specified underlying maturity, as published in H.15 daily update under the heading "U.S. government securities Treasury bills (secondary market)" (or in another recognized electronic source determined by the calculation agent in its sole discretion).
- If the rate described in the prior paragraph does not appear in H.15 daily update or in another recognized electronic source determined by the calculation agent on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, the treasury rate will be the rate, for the relevant interest reset date and for treasury bills having the specified underlying maturity, as published in H.15 daily update, or another recognized electronic source used for displaying that rate, under the heading "U.S. government securities Treasury bills (secondary market)".

- If the rate described in the prior paragraph does not appear in H.15 daily update or another recognized electronic source on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from that source at that time, the treasury rate will be the bond equivalent yield of the arithmetic mean of the following secondary market bid rates for the issue of treasury bills with a remaining maturity closest to the specified underlying maturity: the rates bid as of approximately 3:30 P.M., New York City time, on the relevant interest reset date, by primary U.S. government securities dealers in New York City selected by the calculation agent.
- If no quotation is provided as described in the preceding paragraph, then the calculation agent, after consulting such sources as it deems comparable to any of the foregoing secondary market bids or any display page or other U.S. government publication or source, or any other source as it deems reasonable from which to estimate the treasury bills auction rate or any of the foregoing secondary market bid rates, shall determine the treasury rate for that interest reset date in its sole discretion.

USD CMS Rate Notes

If you purchase a CMS rate note, your note will bear interest at a base rate equal to the CMS rate and adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The CMS rate for the relevant interest reset date (the “CMS Rate”) will be the rate appearing on the Reuters screen ICESWAP1 page (or any successor or replacement service or page) for U.S. dollar swaps having a maturity equal to the index maturity specified in the applicable pricing supplement as of approximately 11:00 A.M., New York City time, on the relevant CMS interest determination date. If the CMS Rate cannot be determined in this manner, then:

- The CMS rate for the relevant interest reset date will be determined on the basis of the mid-market semi-annual swap rate quotations provided by five leading swap dealers in the New York City interbank market at approximately 11:00 A.M., New York City time, on the relevant CMS interest determination date. For this purpose, the semi-annual swap rate means the mean of the bid and offered rates for the semi-annual fixed leg, calculated on a 30/360 day count basis, of a fixed-for-floating U.S. dollar interest rate swap transaction with a term equal to the specified index maturity, commencing on the relevant interest reset date, with an acknowledged dealer of good credit in the swap market, where the floating leg, calculated on an Actual/360 day count basis, is equivalent to LIBOR with a designated maturity of three months, as such rate may be determined in accordance with the provisions set forth above under “— LIBOR Notes”. The calculation agent will select the five swap dealers in its sole discretion and will request the principal New York City office of each of those dealers to provide a quotation of its rate.
- If at least three quotations are provided, the CMS rate for that interest reset date will be the arithmetic mean of the quotations described above, eliminating the highest and lowest quotations or, in the event of equality, one of the highest and one of the lowest quotations.
- If fewer than three quotations are provided, the calculation agent will determine the CMS rate in its sole discretion.

USD Interest Rate Swap Notes

If you purchase a USD interest rate swap note, your note will bear interest at a base rate equal to the rate for U.S. dollar swaps and adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The rate for U.S. dollar swaps will be the rate equal to the rate for U.S. dollar swaps with a maturity of the designated maturity, expressed as a percentage, which appears on the Reuters Screen ISDAFIX3 page (or any successor or replacement service or page) as of 11 :00 a.m., New York City time, on the day that is two U.S. government securities business days preceding that reset date.

If the rate described above does not appear on the Reuters screen ISDAFIX3 page (or any successor or replacement service or page) on the relevant interest reset date, then the rate for U.S. dollar swaps will be a percentage determined on the basis of the mid-market semi-annual swap rate quotations provided by the five leading swap dealers in the New York City interbank market at approximately 11 :00 a.m., New York City time, on the day that is two U.S. government securities business days preceding that reset date, and, for this purpose, the semi-annual swap rate means the mean of the bid and offered rates for the semi-annual fixed leg, calculated on a 30/360 day count basis, of a fixed-for-floating U.S. dollar interest rate swap transaction with a term equal to the designated maturity commencing on that reset date and in a representative amount with an acknowledged dealer of good credit in the swap market, where the floating leg, calculated on an Actual/360 day count basis, is equivalent to the rate for deposits in U.S. Dollars with a designated maturity of three months, as such rate may be determined in accordance with the provisions set forth above under “— LIBOR Notes”.

The calculation agent will request the principal New York City office of each of the five leading swap dealers in the New York City interbank market to provide a quotation of its rate. If at least three quotations are provided, the rate for that reset date will be the arithmetic mean of the quotations, eliminating the highest quotation (or, in the event of equality, one of the highest) and the lowest quotation (or, in the event of equality, one of the lowest). If fewer than three quotations are provided, the calculation agent will determine the rate for that reset date in its sole discretion.

11th District Cost of Funds Rate Notes

If you purchase an 11th district cost of funds rate note, your note will bear interest at a base rate equal to the 11th district cost of funds rate and adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The 11th district cost of funds rate will be the rate equal to the monthly weighted average cost of funds for the calendar month immediately before the relevant reset date set forth opposite the caption “11TH Dist COFI:” as displayed on the Reuters screen COFI/ ARMS page (or any successor or replacement service or page) as of approximately 11:00 A.M., San Francisco time, on the relevant interest reset date.

If the rate described above does not appear on the Reuters screen COFI/ARMS page (or any successor or replacement service or page) on the relevant interest reset date, then the 11th district cost of funds rate for that date will be the monthly weighted average cost of funds paid by institutions that are members of the Eleventh Federal Home Loan Bank District for the calendar month immediately before the relevant interest reset date, as most recently announced by the Federal Home Loan Bank of San Francisco as that cost of funds.

If the Federal Home Loan Bank of San Francisco fails to announce the cost of funds described in the prior paragraph on or before the relevant interest reset date, the 11th district cost of funds rate in effect for the new interest period will be the 11th district cost of funds rate in effect for the prior interest period. If the initial base rate has been in effect for the prior interest period, however, it will remain in effect for the new interest period.

SGD SOR Rate Notes

If you purchase an SGD SOR rate note, your note will bear interest at a base rate equal to the synthetic rate for deposits in Singapore dollars and adjusted by the spread or spread multiplier, if any, specified in your pricing supplement.

The synthetic rate for deposits in Singapore dollars will be the rate equal to the synthetic rate for deposits in Singapore dollars for a period of the designated maturity which appears on the Reuters Screen ABSIRFIX01 Page (or any successor or replacement service or page) under the heading “SOD SWAP OFFER” as of 11:00 a.m., Singapore time, on the day that is the second Singapore Business Day

and London Business Day preceding that reset date. If such rate does not appear on the Reuters Screen ABSIRFIX01 Page (or any successor or replacement service or page), the rate for that reset date will be any substitute rate announced by the Association of Banks in Singapore (“ABS”). If ABS does not announce such rate by 4:00 p.m., Singapore time, on the day that is two Singapore Business Days preceding the relevant reset date, the applicable floating rate for that reset date will be determined on the basis of the rates at which deposits in Singapore dollars are offered by four major banks in the Singapore interbank market at approximately 11:00 a.m., Singapore time, on the day that is two Singapore Business Days preceding that reset date to prime banks in the Singapore interbank market for a period of the designated maturity commencing on that reset date and in a representative amount. The calculation agent will request the principal Singapore office of each of the four major banks in the Singapore interbank market to provide a quotation of its rate. If at least two quotations are provided, the rate for that reset date will be the arithmetic mean of the quotations. If fewer than two quotations are provided as requested, the rate for that reset date will be the arithmetic mean of the rates quoted by major banks in Singapore, selected by the calculation agent, at approximately 11:00 a.m., Singapore time, on that reset date for loans in Singapore dollars to leading banks in Singapore for a period of the designated maturity commencing on that reset date and in a representative amount. If no quotation is provided as described in this paragraph, then the calculation agent, after consulting such sources as it deems comparable to any of the foregoing quotations or display page, or any such source as it deems reasonable from which to estimate the SGD SOR rate or any of the foregoing lending rates, shall determine the SGD SOR rate for that interest reset date in its sole discretion.

Other Rates

If you purchase a floating rate note which bears interest at a rate determined by reference to a rate other than the rates set forth above, the source of the base rate and the manner in which it is determined will be set forth in the applicable pricing supplement. If the base rate cannot be determined in the manner specified in the applicable pricing supplement at the relevant time specified in the applicable pricing supplement, the base rate on the calculation date corresponding to the relevant determination date specified in the applicable pricing supplement, unless the calculation is made earlier and the rate is available from that source at that time, shall be determined by the calculation agent on the basis of the rates, at approximately 11:00 a.m., London time on such interest determination date at which deposits in the relevant currency in an amount that, in the calculation agent’s sole judgment, is representative of a single transaction in the relevant interbank market at such time for the relevant index maturity commencing on the relevant interest reset date are offered to prime banks in the relevant interbank market by major banks in that market selected by the calculation agent. If quotations are obtained by the calculation agent from more than eleven banks, the rate for that interest determination date will be the arithmetic mean of the rates remaining after the two highest and the two lowest are excluded. If at least six but fewer than eleven quotations are obtained, the rate for that interest determination date will be the arithmetic mean of the rates remaining after the single highest and the single lowest rates are excluded. If four or five quotations are obtained, the rate for that interest determination date will be the arithmetic mean of all the rates. If fewer than four quotations are provided as requested, the calculation agent will determine the applicable rate in its sole discretion.

Special Rate Calculation Terms

In this subsection entitled “— Interest Rates — Floating Rate Notes”, we use several terms that have special meanings relevant to calculating floating interest rates. We define these terms as follows:

The term “***bond equivalent yield***” means a yield expressed as a percentage and calculated in accordance with the following formula:

$$\text{bond equivalent yield} = \frac{D \times N}{360 - (D \times M)} \times 100$$

where

- “D” means the annual rate for treasury bills quoted on a bank discount basis and expressed as a decimal;
- “N” means 365 or 366, as the case may be; and
- “M” means the actual number of days in the interest reset period.

The term “**designated CMT index maturity**” means the index maturity for a CMT rate note and will be the original period to maturity of a U.S. treasury security — either 1, 2, 3, 5, 7, 10, 20 or 30 years — specified in the applicable pricing supplement. If no original maturity period is specified, the designated CMT Index maturity will be 2 years.

The term “**designated CMT Reuters screen page**” means the Reuters screen page specified in the applicable pricing supplement that displays treasury constant maturities as published by the Federal Reserve System Board of Governors, or its successor, on its website. If no Reuters screen page is so specified, then the applicable page will be the Reuters screen FEDCMT page. If the Reuters screen FEDCMT page applies but the applicable pricing supplement do not specify whether the weekly or monthly average applies, the weekly average will apply.

The term “**euro-zone**” means, at any time, the region comprised of the Member States of the European Economic and Monetary Union, or any successor union that, as of that time, have adopted a single currency in accordance with the Treaty on European Union of February 1992, or any successor treaty.

“**H.15 daily update**” means the daily statistical release designated as such published by the Federal Reserve System Board of Governors, or its successor, available through the website of the Board of Governors of the Federal Reserve System at <http://www.federalreserve.gov/releases/h15>, or any successor site or publication.

The term “**index currency**” means, with respect to a LIBOR note, the currency specified as such in the applicable pricing supplement. The index currency may be U.S. dollars or any other currency and will be U.S. dollars unless another currency is specified in the applicable pricing supplement.

The term “**index maturity**” means, with respect to a floating rate note, the period to maturity of the instrument or obligation on which the interest rate formula is based, as specified in the applicable pricing supplement.

The term “**money market yield**” means a yield expressed as a percentage and calculated in accordance with the following formula:

$$\text{money market yield} = \frac{D \times 360}{360 - (D \times M)} \times 100$$

where

- “D” means the annual rate for commercial paper quoted on a bank discount basis and expressed as a decimal; and
- “M” means the actual number of days in the relevant interest reset period.

The term “**representative amount**” means an amount that, in the calculation agent’s judgment, is representative of a single transaction in the relevant market at the relevant time.

“**Reuters screen**” means the display on the Reuters 3000 Xtra service or any successor or replacement service, on the page or pages specified in the applicable pricing supplement, or any replacement page or pages on that service, as determined by the calculation agent.

“Reuters screen LIBOR page” means the display on the Reuters screen LIBOR01 page or Reuters screen LIBOR02 page, as specified in the applicable pricing supplement, or any replacement page or pages on which London interbank rates of major banks for the relevant index currency are displayed.

“Reuters screen USPRIME1 page” means the display on the Reuters screen page titled “USPRIME1”, for the purpose of displaying prime rates or base lending rates of major U.S. banks.

If, when we use the terms designated CMT Reuters screen page, H.15 daily update, Reuters screen LIBOR page, Reuters screen USPRIME1 page, Reuters screen USAUCTION10 page, Reuters screen USAUCTION11 page, Reuters screen ISDAFIX2 page, Reuters screen COFI/ARMS page, Reuters screen page 5 or Reuters screen, we refer to a particular heading or headings on any of those pages, those references include any successor or replacement heading or headings as determined by the calculation agent.

Indexed Notes

This subsection provides information that may be relevant to your note if it is linked to an index. The applicable pricing supplement may provide additional information, including information that may modify the information below, and may specify that your note is linked to a different index than those referred to below. In addition, the applicable pricing supplement will contain disclosure with respect to any licensing arrangements we have entered or may enter into with the relevant index sponsor. We do not intend to provide post-issuance information with respect to any underlying, unless otherwise required by applicable laws and regulations.

Whether or not a maximum rate applies, the interest rate on an indexed note will in no event be higher than the maximum rate permitted by New York law, as it may be modified by U.S. law of general application. Under current New York law, the maximum rate of interest, with some exceptions, for any loan in an amount less than \$2,500,000 is 25% per year on a simple interest basis. No limits apply to loans of \$2,500,000 or more.

Currencies and Foreign Currency Exchange Rates

Exchange Business Days

An exchange business day with respect to a foreign exchange rate is a day on which either (1) an entity responsible for setting the official exchange rate, a spot exchange rate or other specified exchange rate publishes such rate or (2) transactions in the official exchange rate, spot exchange rate or other specified exchange rate are occurring in the global foreign exchange spot markets and foreign exchange markets are settling payments in the specified principal financial centers of the relevant currencies, and, in each case, a market disruption event with respect to a foreign currency exchange rate has not occurred or is not continuing.

Market Disruption Events

A market disruption event with respect to a foreign currency exchange rate will be deemed to have occurred if an event has occurred or is continuing which makes it impossible for the calculation to obtain such relevant official exchange rate, spot exchange rate or other specified exchange rate.

Adjustments

Non-Exchange Business Days

If any observation date with respect to a foreign currency exchange rate falls on a day that is not an exchange business day, the relevant observation date with respect to such rate will be postponed to the next following exchange business day. However, in no event will any observation date with respect to a

foreign exchange rate be postponed by more than eight business days after the scheduled date for that observation date. If an observation date immediately preceding the stated maturity date or any payment date for the relevant note is postponed, the stated maturity date or payment date will be postponed by the same number of business day(s) from and excluding the originally scheduled observation date to and including the actual observation date, subject to a maximum of eight business days; provided, however, that if the rescheduled observation date is more than five business days prior to the stated maturity date or payment date, then such stated maturity date or payment date shall not be postponed. In the event that an observation date has been postponed to the last date possible and such postponed date is not an exchange business day, the calculation agent shall determine the relevant official exchange rate, spot exchange rate or other specified exchange rate in a commercially reasonable manner in its sole discretion.

Hedging in Connection with Issuance of Indexed Notes

In anticipation of the sale of indexed notes, we and/or our affiliates may enter into hedging transactions involving purchases of instruments linked to the relevant index or indices on the trade date. In addition, from time to time after we issue the offered notes, we and/or our affiliates may enter into additional hedging transactions and unwind those hedging transactions we have entered into, in connection with such notes and perhaps in connection with other notes we issue, some of which may have returns linked to the relevant index or indices or all or a portion of the index components. Consequently, with regard to indexed notes, from time to time, we and/or our affiliates:

- expect to acquire and dispose of positions in listed or over-the-counter options, futures, swaps or other instruments linked to the relevant index or indices or some or all of the index components,
- may take or dispose of positions in the securities of the issuers of securities included in such indices,
- may take or dispose of positions in listed or over-the-counter options or other instruments based on indices designed to track the performance of relevant equity markets or components of such markets, and/or
- may take short positions in any of the index components described above.

We and/or our affiliates may acquire long or short positions in securities similar to the offered notes from time to time and may, in our or their sole discretion, hold or resell those securities.

In the future, we and/or our affiliates would expect to close out any hedge positions relating to your note and perhaps hedge positions relating to the index and other notes with returns linked to the index components. Those steps are likely to involve sales and/or purchases of listed or over-the-counter options, futures or other instruments linked to the index or perhaps to some or all of the index components. They may also involve sales and/or purchases of some or all of the index components as well as listed or over-the-counter options, futures or other instruments linked to the index.

The hedging activity discussed above may adversely affect the market price of your note from time to time and the supplemental payment amount, if any, we will pay on your note. See “Risk Factors — Considerations Relating to Indexed Notes — Trading and Other Transactions by Us in Instruments Linked to an Index or the Components of an Index May Impair the Market Price of an Indexed Note” and “Risk Factors — Considerations Relating to Indexed Notes — Our Business Activities May Create Conflicts of Interest Between You and Us” for a discussion of these adverse effects.

Indexed Notes Terms

In this subsection entitled “Indexed Notes”, we use several terms that have special meanings relevant to indexed notes. We define these terms as follows:

The term “**index**” means any index specified as such in the applicable pricing supplement and any successor index, in each case as it may be modified, replaced or adjusted from time to time, as indicated above.

The term “**index sponsor**” means, at any time, the person or other entity, including any successor sponsor, that is (i) responsible for setting and reviewing the rules and procedures for the methods of calculation and adjustments, if any, related to the relevant index and (ii) announces (directly or through an agent) the level of the relevant index on a regular basis on each exchange business day, all as determined by the calculation agent.

The term “**observation date**” means with respect to an index the date specified as such in the applicable pricing supplement, subject to any relevant adjustments as described above.

The term “**reference price**” means the official closing level of the relevant index as of the relevant observation date as published by the index sponsor.

Redemption and Repayment

Redemption at Maturity

Unless previously redeemed, or purchased and cancelled as specified below, or unless otherwise specified in the applicable pricing supplement, the notes will be redeemed by the Issuer by payment of the Amount Payable At Maturity (Final Redemption Amount) on the Maturity Date. In determining the Amount Payable At Maturity on your note, if the applicable pricing supplement specifies the “Calculation Basis” to be “Per Denomination”, then the amount payable at maturity will be calculated on a per denomination basis and if the applicable pricing supplement specifies the “Calculation Basis” to be “Notional”, then the amount payable at maturity will be calculated on the basis of the outstanding face amount of your notes.

Redemption at the Option of The Goldman Sachs Group, Inc.

We will not be entitled to redeem your note before its stated maturity date unless your pricing supplement specifies a redemption commencement date, except in the event of certain developments involving a change in law (including a change in tax law) or in connection with the imposition of United States withholding taxes for which we have agreed to pay Additional Amounts, as described in this subsection under “— Redemption Upon Change in Law,” and “— Redemption Upon Obligation to Pay Additional Amounts” below. If your pricing supplement specifies a redemption commencement date, it will also specify one or more redemption prices. Your pricing supplement may also specify one or more redemption periods during which the specified redemption prices relating to a redemption of notes during those periods will apply.

If your pricing supplement specifies a redemption commencement date, your note will be redeemable at our option, in whole or in part, on or after that date as specified in your pricing supplement or at the time or times specified in your pricing supplement. If we redeem your note, we will do so at the redemption amounts specified in the applicable pricing supplement. Unless otherwise specified in your pricing supplement, the redemption amounts may be either (i) the Make-Whole Redemption Amount (as defined below) or (ii) a percentage of the face amount of your note, plus interest accrued to the redemption date. For the avoidance of doubt, if the applicable redemption date is an interest payment date, the holder will receive only the applicable redemption amount on such redemption commencement date and there will be no double payment of accrued interest on the notes. If different prices are specified for different redemption periods, the price we pay will be the price that applies to the redemption period during which your note is redeemed in accordance with the applicable rules of Euroclear and Clearstream, Luxembourg. In the case of a partial redemption of notes of any issuance, such partial redemption will be reflected in the records of Euroclear and Clearstream, Luxembourg as either a pool

factor or a reduction in nominal amount, at their discretion in accordance with the applicable rules of Euroclear and Clearstream, Luxembourg.

“Make-Whole Redemption Amount” means an amount equal to the sum of:

- (a) 100 per cent. of the face amount of the notes to be redeemed, *plus*
- (b) the excess, if any, of (i) the then current values of the remaining scheduled payments of principal and interest, up to but not including the stated maturity date (or, if earlier, to the “Par Call Redemption Date” specified in the applicable pricing supplement), discounted to the applicable redemption date on the Make-Whole Calculation Basis specified in the applicable pricing supplement (based on the relevant Make-Whole Day Count Fraction specified in the applicable pricing supplement) at a discount rate equal to the Reference Dealer Rate *plus* the Redemption Margin specified in the applicable pricing supplement, in each case as determined by the Make-Whole Calculation Agent over (ii) 100 per cent. of the face amount of the notes to be redeemed.

Unless otherwise specified in the applicable pricing supplement, if we exercise an option to redeem any note, we will give to the holder written notice (the “Issuer’s Redemption Notice”) of the principal amount of the note to be redeemed, which shall in no case be fewer than five (5) Business Days before the applicable redemption date.

We or our affiliates may purchase notes from investors who are willing to sell from time to time, either in the open market at prevailing prices or in private transactions at negotiated prices. Notes that we or they purchase may, at our discretion, be held, resold or canceled.

Defined terms used above:

“Make-Whole Calculation Agent” means a leading investment, merchant or commercial bank appointed by us for the purposes of calculating the Make-Whole Redemption Amount, and notified to the holder in the applicable Issuer’s Redemption Notice.

“Reference Dealers” means five (or, in the circumstances set out in the definition of “Reference Security” below, three or four) credit institutions or financial services institutions that regularly deal in bonds and other debt securities as selected by the Make-Whole Calculation Agent after consultation with the Issuer.

“Reference Dealer Rate” means, with respect to the applicable redemption date, the average of the five quotations of the mid-market annual yield to maturity of the Reference Security at the Quotation Time as specified in the applicable pricing supplement on the third business day in the Quotation Jurisdiction as specified in the relevant pricing supplement preceding the applicable redemption date provided in writing to the Make-Whole Calculation Agent by the five Reference Dealers.

“Reference Security” means (a) any Reference Bond specified in the applicable pricing supplement or (b) if no Reference Bond has been specified in the applicable pricing supplement or if, at the Quotation Time on the third business day in the Quotation Jurisdiction as specified in the relevant Pricing supplement preceding the applicable redemption date, the Reference Bond is no longer outstanding, such other central bank or government security that, in the majority opinion of three Reference Dealers (one of whom shall be the Make-Whole Calculation Agent) (i) has a maturity comparable to the remaining term of the note (or, if earlier, to the maturity at the Par Call Redemption Date specified in the applicable pricing supplement) and (ii) would be utilized, at the time of selection and in accordance with customary financial practice, in pricing new issues of corporate debt securities of comparable maturity to the remaining term of the note (or, if earlier, to the maturity at the Par Call Redemption Date specified in the applicable pricing supplement). In the event that each such Reference Dealer selects a different central bank or government security, the Make-Whole Calculation Agent after consultation with the Issuer shall approach a fourth Reference Dealer and, from the three different central bank or government securities

selected by the other Reference Dealers, such fourth Reference Dealer shall select as the Reference Security the central bank or government security which, in its opinion (i) has a maturity comparable to the remaining term of the notes (or, if earlier, to the maturity at the Par Call Redemption Date specified in the applicable pricing supplement) and (ii) would be utilised, at the time of selection and in accordance with customary financial practice, in pricing new issues of corporate debt securities of comparable maturity to the remaining term of the notes (or, if earlier, to the maturity at the Par Call Redemption Date specified in the applicable pricing supplement). The central bank or government security so selected by the fourth Reference Dealer shall then be the Reference Security.

Repayment at the Option of the Holder

You will not be entitled to require us to buy your note from you before its stated maturity, unless the applicable pricing supplement specifies “Repurchase at the Holder’s Option” to be applicable. If the applicable pricing supplement specifies “Repurchase at the Holder’s Option” to be applicable, it will also specify one or more repayment dates one or more repayment amounts, which will be an amount equal to a percentage of the face amount of your note plus interest accrued but unpaid to the applicable repayment date.

If your pricing supplement specifies a repayment date, your note will be repayable at the holder’s option on the specified repayment date at a percentage of the face amount of your note plus interest accrued but unpaid to the applicable repayment date. For the avoidance of doubt, if the applicable repayment date is an interest payment date, the holder will receive only the applicable repayment amount on such repayment date and there will be no double payment of accrued interest on the notes.

If a holder of a note wishes to exercise its option to redeem any note, the holder will need to deliver notice to a paying agent of The Goldman Sachs Group, Inc., at least 30 days but not more than 45 days before the repayment date. Exercise of the repayment option by the holder of a note will be irrevocable. The holder of a note may not exercise the repayment option for less than the entire principal amount of its note.

If a note represented by a global note is subject to repayment at the holder’s option, the depositary or its nominee, as the holder, will be the only person that can exercise the right of repayment. Any indirect owners who own beneficial interests in the global note and wish to exercise a repayment right must give proper and timely instructions to their banks or brokers through which they hold their interests, requesting that they notify the depositary to exercise the repayment right on their behalf. Different firms have different deadlines for accepting instructions from their customers, and you should take care to act promptly enough to ensure that your request is given effect by the depositary before the applicable deadline for exercise.

Street name and other indirect owners should contact their banks or brokers for information about how to exercise a repayment right in a timely manner.

Redemption Upon Change in Law

Unless we say otherwise in your pricing supplement, the following redemption provisions will apply to the notes.

We may redeem, as a whole but not in part, any outstanding issuance of notes, if, at any time on or after the settlement date, a change in law has occurred with respect to such issuance, as described under “Description of the Program — Features Common to All Notes — Change in Law”.

This right to redemption is exclusive of and in addition to the right to redemption described under “— Redemption Upon Obligation to Pay Additional Amounts” below.

If we exercise the option to redeem, we will give to the holders of notes, not less than 30 nor more than 60 days' notice before the specified redemption date (unless otherwise required by law). The amount payable to the holders upon such redemption will be the Non-Scheduled Early Repayment Amount, which will be calculated as described under "— Non Scheduled Early Repayment Amount" below. In the event of a change in law due to illegality, we will pay the Non-Scheduled Repayment Amount only to the extent permitted by applicable law.

We must deliver to the fiscal agent a certificate affirming that we are entitled to exercise the right of redemption and setting forth in reasonable detail a statement of facts showing that the conditions precedent to the right to redeem the notes have occurred.

Redemption Upon Obligation to Pay Additional Amounts

Unless we say otherwise in your pricing supplement, the following redemption provisions will apply to the notes.

We may redeem, as a whole but not in part, any outstanding notes of an issuance, if, as a result of certain changes in the laws or regulations of any U.S. taxing authority, at any time on or after the settlement date or such other date specified in the applicable pricing supplement, we are obligated to pay, on the next succeeding interest payment date or maturity date, additional amounts, as described under "— Payment of Additional Amounts" below, and that obligation cannot be avoided by the use of reasonable measures available to us. If we exercise the option to redeem, we will give to the holders of notes to be redeemed, not less than 30 nor more than 60 days' notice before the specified redemption date. The amount payable to the holders upon such redemption will be the Non-Scheduled Early Repayment Amount, which will be calculated as described under "— Non Scheduled Early Repayment Amount".

The obligation to pay additional amounts must remain in effect at the time we give notice of redemption, and that notice of redemption must be given no earlier than 90 days before the date on which we would be obligated to pay additional amounts, if a payment in respect of the notes were then due. In addition, we must deliver to the fiscal agent a certificate affirming that we are entitled to exercise the right of redemption and setting forth in reasonable detail a statement of facts showing that the conditions precedent to the right to redeem the notes have occurred.

Non-Scheduled Early Repayment Amount

If we redeem notes prior to the stated maturity date following a change in law or upon becoming obliged to pay additional amounts, or if the maturity of the notes is accelerated following an event of default, the amount payable to the holders upon such redemption or acceleration will be the Non-Scheduled Early Repayment Amount, which will be calculated as follows, unless we say otherwise in your pricing supplement:

- For fixed rate notes (other than original issue discount notes and zero coupon notes) and floating rate notes, an amount equal to 100% of the principal of the notes *plus* accrued but unpaid interest to the date of redemption or acceleration;
- For original issue discount notes and zero coupon notes, an amount equal to 100% of the accreted value (as defined above under "— Interest Rates — Fixed Rate Notes") as of the date of redemption or acceleration *plus*, if applicable, accrued but unpaid interest to the date of redemption or acceleration;
- For indexed notes:
 - In case of a redemption following a change in law or upon becoming obliged to pay additional amounts, an amount equal to the fair market value of the notes on

the second Business Day prior to the date of redemption, determined by the Calculation Agent by reference to such factors as the Calculation Agent considers to be appropriate, including, without limitation (a) market prices or values for the underlying or underlyers and other relevant economic variables (such as interest rates and, if applicable, exchange rates) at the relevant time taking into account the bid or offer prices of the underlying or underlyers (as relevant); (b) the remaining term of the notes had they remained outstanding to the stated maturity date and/or any optional early redemption date; (c) if applicable, accrued interest to the date of redemption; and (d) internal pricing models of The Goldman Sachs Group, Inc. and its affiliates. The Calculation Agent may, in its reasonable discretion, adjust the Fair Market Value to account for any reasonable expenses and costs of (or benefit to) The Goldman Sachs Group, Inc. and/or its affiliates relating to the early redemption of the notes, including those relating to the unwinding of any underlying and/or related hedging arrangements and the hypothetical cost (or benefit) of replacing the amount of the funding provided by the notes at a reasonably equivalent maturity and ranking, in each case as determined by the Calculation Agent in its reasonable discretion.

- In case of acceleration of the maturity of the notes following an event of default, an amount equal to the fair market value of the notes as of the date of acceleration, determined by the Calculation Agent by reference to such factors as the Calculation Agent considers to be appropriate, including, without limitation (a) market prices or values for the underlying or underlyers and other relevant economic variables (such as interest rates and, if applicable, exchange rates) at the relevant time taking into account the bid or offer prices of the underlying or underlyers (as relevant); (b) the remaining term of the notes had they remained outstanding to the stated maturity date and/or any optional early redemption date; (c) if applicable, accrued interest to the date of acceleration; and (d) internal pricing models of The Goldman Sachs Group, Inc. and its affiliates. In calculating the Fair Market Value, the Calculation Agent shall assume that The Goldman Sachs Group, Inc. is a Qualified Financial Institution (as defined below) or, if the Calculation Agent determines that no Qualified Financial Institution exists, the Calculation Agent shall assume The Goldman Sachs Group, Inc. is an Eligible Financial Institution (as defined below) with the highest rating of all Eligible Financial Institutions in respect of outstanding debt obligations with a stated maturity of one year or less from the date of issue, such rating assigned by Standard & Poor's Ratings Group or any successor, or if such entity no longer exists, an entity selected by the Calculation Agent in its reasonable discretion.

Defined terms used above:

“Qualified Financial Institution” means an Eligible Financial Institution, which at the time of calculation of the Non-Scheduled Early Repayment Amount has outstanding debt obligations with a stated maturity of one year or less from the date of issue and rated either: (i) A-1 or higher by Standard & Poor's Ratings Group or any successor, or any other comparable rating then used by that rating agency; or (ii) P-1 or higher by Moody's Investors Service, Inc. or any successor, or any other comparable rating then used by that rating agency.

“Eligible Financial Institution” means a financial institution organized under the laws of any jurisdiction in the United States of America, the United Kingdom or the European Union.

Payment of Additional Amounts

Unless we say otherwise in your pricing supplement and unless required by law, we intend to make all payments on the notes without deducting U.S. withholding taxes. If we are required by law to withhold

payments to non-U.S. investors, however, we will not pay additional amounts on those payments. Only if the applicable pricing supplement explicitly states that the gross-up of any payments due on the notes is applicable will we pay additional amounts on payments that are required to be withheld and only to the extent described in this subsection. The following discussion in this subsection applies only if the applicable pricing supplement provides for the gross-up of payments due on the notes and describes the conditions in respect of such a gross-up.

We will pay additional amounts on a note only if the beneficial owner of the notes is a United States alien. The term “United States alien” means any person who, for U.S. federal income tax purposes is:

- a nonresident alien individual;
- a foreign corporation;
- a foreign partnership one or more of the members of which, for U.S. federal income tax purposes, is a foreign corporation, a nonresident alien individual or a nonresident alien fiduciary of a foreign estate or trust; or
- a nonresident alien fiduciary of an estate or trust that is not subject to U.S. federal income tax on a net income basis on income or gain from a note.

If the beneficial owner of a note is a United States alien, we will pay all additional amounts that may be necessary so that every net payment of interest, premium, if any, or principal on that note will not be less than the amount provided for in that note. By net payment, we mean the amount we or our paying agent pays after deducting or withholding an amount for or on account of any present or future tax, assessment or other governmental charge imposed with respect to that payment by a U.S. taxing authority.

Our obligation to pay additional amounts is subject to several important exceptions, however. We will **not** pay additional amounts for or on account of any of the following:

- any tax, assessment or other governmental charge imposed solely because of any time there is or was a connection between the beneficial owner — or between a fiduciary, settler, beneficiary or member of the beneficial owner, if the beneficial owner is an estate, trust or partnership — and the United States (other than the mere receipt of a payment or the ownership or holding of a note), including because the beneficial owner — or the fiduciary, settler, beneficiary or member — at any time, for U.S. federal income tax purposes:
 - is or was a citizen or resident or is or was treated as a resident of the United States;
 - is or was present in the United States;
 - is or was engaged in a trade or business in the United States;
 - has or had a permanent establishment in the United States;
 - is or was a passive foreign investment company or a controlled foreign corporation;
 - is or was a corporation that accumulates earnings to avoid U.S. federal income tax; or
 - is or was a “ten percent shareholder” of The Goldman Sachs Group, Inc.;
- any estate, inheritance, gift, sales, excise, transfer, wealth or personal property or any similar tax, assessment or other governmental charge;
- any tax, assessment or other governmental charge imposed solely because the holder or any other person fails to comply with any certification, identification or other reporting requirement concerning the nationality, residence, identity or connection with the United States of the holder

or beneficial owner of such note, if compliance is required by statute or by regulation of the U.S. Treasury Department or by an applicable income tax treaty to which the United States is a party, as a precondition to exemption from such tax, assessment or other governmental charge;

- any tax, assessment or other governmental charge which is payable otherwise than by deduction or withholding from payments of principal of, premium, if any, or interest on such notes;
- any tax, assessment or other governmental charge imposed solely because the payment is to be made by a particular paying agent (including The Goldman Sachs Group, Inc.) and would not be imposed if made by another paying agent;
- any tax, assessment or other governmental charge imposed solely because the holder (1) is a bank purchasing the note in the ordinary course of its lending business or (2) is a bank that is neither (A) buying the note for investment purposes only nor (B) buying the note for resale to a third party that either is not a bank or holding the note for investment purposes only;
- any tax, assessment or other governmental charge imposed under Section 871(m) of the Code, and any current or future regulations or official interpretations thereof; or
- any combination of the taxes, assessments or other governmental charges described above.

In addition, any amounts to be paid on the notes will be paid net of any deduction or withholding imposed or required pursuant to Sections 1471 through 1474 of the Code, any current or future regulations or official interpretations thereof, any agreement entered into pursuant to Section 1471(b) of the Code, or any fiscal or regulatory legislation, rules or practices adopted pursuant to any intergovernmental agreement entered into in connection with the implementation of such Sections of the Code, and no additional amounts will be required to be paid on account of any such deduction or withholding.

In addition, we will not pay additional amounts with respect to any payment of principal, premium, if any, or interest to any United States alien who is a fiduciary or a partnership, or who is not the sole beneficial owner of the payment, to the extent that we would not have to pay additional amounts to any beneficiary or settlor of the fiduciary or any member of the partnership, or to any beneficial owner of the payment, if that person or entity were treated as the beneficial owner of the note for this purposes.

When we refer to a “U.S. taxing authority” in this subsection and “— Redemption and Repayment — Redemption Upon Obligation to Pay Additional Amounts” above, we mean the United States of America or any state, other jurisdiction or taxing authority in the United States. When we refer to the “United States”, we mean the United States of America, including the states and the District of Columbia, together with the territories, possessions and all those areas subject to the jurisdiction of the United States of America.

When we refer to any payment of interest or principal on a note, this includes any additional amount that may be payable as described above in respect of that payment.

Mergers and Similar Transactions

We are generally permitted to merge or consolidate with another corporation or other entity. We are also permitted to sell our assets substantially as an entirety to another corporation or other entity. With regard to your note, however, we may not take any of these actions unless all of the following conditions are met:

- if the successor entity in the transaction is not The Goldman Sachs Group, Inc., the successor entity must be organized as a corporation, partnership or trust and must expressly assume our obligations under the notes and the fiscal agency agreement with respect to that series. The successor entity may be organized under the laws of any jurisdiction, whether in the United States or elsewhere; and

- immediately after the transaction, no covenant breach or default under the notes of that issuance has occurred and is continuing. For this purpose, “covenant breach or default under the notes of that issuance” means an event of default with respect to that issuance or any event that would be a covenant breach or event of default with respect to that issuance if the requirements for giving us notice of such breach or default and for our default having to continue for a specific period of time were disregarded.

If the conditions described above are satisfied, we will not need to obtain the approval of the holders of the notes in order to merge or consolidate or to sell our assets. Also, these conditions will apply only if we wish to merge or consolidate with another entity or sell our assets substantially as an entirety to another entity. We will not need to satisfy these conditions if we enter into other types of transactions, including any transaction in which we acquire the stock or assets of another entity, any transaction that involves a change of control of The Goldman Sachs Group, Inc. but in which we do not merge or consolidate and any transaction in which we sell less than substantially all our assets. For the avoidance of doubt, a violation of these conditions, when applicable, will not constitute an event of default.

Also, if we merge, consolidate or sell our assets substantially as an entirety and the successor is a non-U.S. entity, neither we nor any successor would have any obligation to compensate you for any resulting adverse tax consequences relating to the notes.

Notwithstanding the foregoing and for the avoidance of doubt, we may also sell or transfer our assets substantially as an entirety, in one or more transactions, to one or more entities, provided that the assets of The Goldman Sachs Group, Inc. and its direct or indirect subsidiaries in which it owns a majority of the combined voting power, taken together, are not sold or transferred substantially as an entirety to one or more entities that are not such subsidiaries.

Defeasance and Covenant Defeasance

Full Defeasance

Unless we say otherwise in your pricing supplement, the provisions for full defeasance will apply to any fixed rate note, the principal of (and premium, if any) and interest on which is payable in U.S. dollars, so long as the note does not include the provisions discussed under “— Payment of Additional Amounts” above.

If there is a change in applicable U.S. federal tax law, as described below, we can legally release ourselves from all payment and other obligations on any notes. This is called full defeasance. For us to do so, each of the following must occur:

- we must deposit in trust for the benefit of all holders of those notes a combination of money and/or U.S. government or U.S. government agency notes or bonds that will generate enough cash to make interest, principal and any other payments on those notes on their various due dates or, if we choose, on redemption;
- such deposit must be held in a non-interest bearing segregated trust account designated as a special deposit account pursuant to a written agreement, to be governed by the laws of the State of New York, between us and the defeasance trustee whereby title of such account is in the name of the defeasance trustee solely in its capacity as defeasance trustee and not in its capacity as a deposit bank;
- there must be a change in current U.S. federal tax law or a United States Internal Revenue Service ruling that lets us make the above deposit without causing the holders to be taxed on those notes any differently than if we do not make the deposit and just repaid those notes ourselves. Under current U.S. federal tax law, the deposit and our legal release from your note would be treated as though we took back your note and gave you your share of the cash and

notes or bonds deposited in trust. In that event, you could recognize gain or loss on your note; and

- we must deliver to the fiscal agent and the defeasance trustee a legal opinion of our counsel confirming the tax law change described above.

Any right we have to redeem any notes will survive full defeasance with respect to those notes.

If we ever fully defeased your note, you would have to rely solely on the trust deposit for payments of your note. You would not be able to look to us for payment in the event of any shortfall.

Covenant Defeasance

Unless we say otherwise in your pricing supplement, the provisions for covenant defeasance will apply to any fixed rate note, the principal of (and premium, if any) and interest on which is payable in U.S. dollars.

Under current U.S. federal tax law, we can make the same type of deposit described in this subsection under “— Full Defeasance” above and be released from our obligations described under “— Mergers and Similar Transactions” above and any other covenants relating to your note that may be described in your pricing supplement. This is called covenant defeasance. In that event, you would lose the protection of those restrictive covenants. In order to achieve covenant defeasance for any notes, we must do both of the following:

- we must deposit in trust for the benefit of the holders of those notes a combination of money and/or U.S. government or U.S. government agency notes or bonds that will generate enough cash to make interest, principal and any other payments on those notes on their various due dates or, if we choose, on redemption;
- such deposit must be held in a non-interest bearing segregated trust account designated as a special deposit account pursuant to a written agreement, to be governed by the laws of the State of New York, between us and the defeasance trustee whereby title of such account is in the name of the defeasance trustee solely in its capacity as defeasance trustee and not in its capacity as a deposit bank; and
- we must deliver to the fiscal agent and the defeasance trustee a legal opinion of our counsel confirming that under current U.S. federal income tax law we may make the above deposit without causing the holders to be taxed on those notes any differently than if we do not make the deposit and just repaid those notes ourselves.

Any right we have to redeem the notes will survive covenant defeasance with respect to those notes.

If we accomplish covenant defeasance on your note, you can still look to us for repayment of your note in the event of any shortfall in the trust deposit. You should note, however, that if one of the remaining events of default occurred, such as our bankruptcy, and your note became immediately due and payable, there may be a shortfall. Depending on the event causing the default, you may not be able to obtain payment of the shortfall.

Events of Default and Remedies

Unless your pricing supplement says otherwise, when we refer to an event of default with respect to any issuance of notes, we mean any of the following:

- we do not pay the principal or any premium on any such notes within 30 days after the due date;
- we do not pay interest on any such notes within 30 days after the due date;

- we file for bankruptcy or other events of bankruptcy, insolvency or reorganization relating to The Goldman Sachs Group, Inc. occur. Those events must arise under U.S. federal or state law, unless we merge, consolidate or sell our assets as described under “Description of the Program—Mergers and Similar Transactions” above and the successor firm is a non-U.S. entity. If that happens, then those events must arise under U.S. federal or state law or the law of the jurisdiction in which the successor firm is legally organized; or
- if the applicable pricing supplement states that any additional event of default applies to the notes, that event of default occurs.

No other defaults under or breaches of the notes will result in an event of default, whether after notice, the passage of time or otherwise. However, certain events may give rise to a covenant breach, as described below under “— Covenant Breaches and Related Remedy”.

We may change, eliminate or add to the events of default with respect to any particular series of notes, as indicated in the applicable pricing supplement.

Covenant Breaches and Related Remedy

Unless your pricing supplement says otherwise, when we refer to a covenant breach with respect to the notes, we mean that we are in breach of our obligations described under “Description of the Program — Mergers and Similar Transactions” above or any other covenants relating to your note that may be described in your pricing supplement. You may bring a lawsuit or other formal action against us for a covenant breach only if we remain in covenant breach more than 60 days after we receive a notice of such breach sent by the holders of at least 10% in principal amount of the notes then outstanding stating that we are in breach and requiring us to remedy the breach.

We may change the definition of covenant breach with respect to any particular series of notes, as indicated in the applicable pricing supplement. For the avoidance of doubt, a covenant breach shall not be an event of default with respect to any note.

Remedies

If an event of default occurs and is continuing (the default not having been cured or waived as provided under “— Meetings, Modification and Waiver of Covenants” below), the holder of an affected note may, at its option, by written notice to us and the fiscal agent, declare the principal amount of its note to be immediately due and payable, except as provided in the applicable pricing supplement. If the event of default occurs because of events in bankruptcy, insolvency or reorganization relating to the Goldman Sachs Group, Inc., the principal amount of the notes of that series will be automatically accelerated, without any action by the fiscal agent or any holder.

For the purpose of determining whether the holders of our notes are entitled to take any action under the fiscal agency agreement, we will treat the outstanding face amount of each such note as the outstanding principal amount of that note. Although the terms of each note may differ from those of the other notes of the same series, holders of specified percentages in principal amount of all notes of each such series will be able to take action affecting all notes of such series. This action may involve changing some of the terms that apply to the notes of the relevant series, accelerating the stated maturity date of the notes of the relevant series after a default or waiving some of our obligations under the fiscal agency agreement. These matters are discussed below under “— Events of Default and Remedies” and “— Meetings, Modification and Waiver of Covenants”.

Amount Payable on Default

If an event of default occurs and the maturity of a note is accelerated, we will pay the applicable Non-Scheduled Early Repayment Amount, which will be calculated as described above under “—Redemption and Repayment — Non-Scheduled Early Repayment Amount”.

Meetings, Modification and Waiver of Covenants

The fiscal agency agreement contains provisions for convening meetings of the holders of notes to consider matters affecting their interests. There are three types of changes which we can make to either the fiscal agency agreement or any issuance of notes issued under that agreement.

Changes Requiring Each Holder's Approval

First, there are changes that cannot be made without the approval of each holder of the note affected by the change under the fiscal agency agreement. Here is a list of those types of changes:

- change the due date for the payment of principal of (or premium, if any) or any installment of interest on any note;
- reduce the principal amount of any note, the portion of the principal amount which is payable upon acceleration of the maturity of the note, the interest rate or the premium payable upon redemption of the note;
- change the currency of payment in which the principal, premium or interest of any note is payable;
- change our obligation, if any, to pay additional amounts;
- shorten the period during which redemption of the notes is not permitted or permit redemption during a period when not previously permitted;
- modify our obligation to maintain required offices at which any payments on the notes are payable;
- reduce the percentage in principal amount of the notes outstanding necessary to modify, amend or supplement the fiscal agency agreement or the terms and conditions of the notes or to waive any past default or future compliance; or
- reduce the percentage of aggregate principal amount of the notes outstanding required for the adoption of a resolution or the quorum required at any meeting of holders of notes at which a resolution is adopted.

For the avoidance of doubt, we may make any change to a note where we have the consent of the holder of the note affected by the change and any such consent given by the holder will be binding on any successor holder of such note.

Changes Not Requiring Approval

The second type of change does not require any approval by holders of the notes of an affected issuance. This type of change is limited to the following:

- for the purpose of adding to our covenants for the benefit of any holders of any notes;
- for the purpose of surrendering any right or power conferred upon us in any notes;
- for the purpose of evidencing the succession of another person or entity to us and the assumption by any such successor of our covenants and obligations in any notes or the fiscal agency agreement;
- for the purpose of curing any ambiguity in, or of curing, correcting or supplementing any defective provision of, any note or the fiscal agency agreement; or
- for the purpose of amending any note or the fiscal agency agreement in any other manner which we and the fiscal agent may determine, provided that such amendment shall not be inconsistent

with the notes of such series and shall not adversely affect the interest of any holder of any note of such series in any material respect.

We may also make changes or obtain waivers that do not adversely affect a particular issuance of notes, even if they affect other issuances of notes. In those cases, we do not need to obtain the approval of the holder of the unaffected notes; we need only obtain any required approvals from the holders of affected notes.

Changes Requiring the Approval of 66 2/3% of the Holders

Any other change to a particular issuance of notes would require the consent of at least 66 2/3% in aggregate principal amount of the affected notes at the time outstanding or the adoption of a resolution at a meeting of holders of the affected notes at which a quorum is present by 66 2/3% in aggregate principal amount of the affected notes then outstanding represented at such meeting. The same approval of 66 2/3% in aggregate principal amount of the affected notes then outstanding would be required for us to obtain a waiver of an event of default (including an event which is, or after lapse of time would become, an event of default), any of our covenants where we make promises about merging, which we describe under “— Mergers and Similar Transactions” above, and any other covenants in the fiscal agency agreement or pricing supplement.

Special Rules for Action by Holders

When holders take any action under the notes or the fiscal agency agreement, such as giving a notice of default or of covenant breach, declaring an acceleration, or approving any change or waiver, we will apply the following rules.

Only Outstanding Notes Are Eligible

Only holders of outstanding notes of the applicable issuance will be eligible to participate in any action by holders of notes of that issuance. Also, we will count only outstanding notes in determining whether the various percentage requirements for taking action have been met. For these purposes, a note will not be “outstanding”:

- if it has been surrendered for cancellation;
- if it is being held by the fiscal agent for re-issuance but has not yet been re-issued;
- if notes in lieu of or for substitution of the original notes have been authenticated and delivered;
- if we have deposited or set aside, in trust for its holder, money for its payment or redemption;
- if we have fully defeased it as described under “— Defeasance and Covenant Defeasance — Full Defeasance” above; or
- if we or one of our affiliates, such as Goldman Sachs International, is the owner.

Meetings and other Actions

The quorum at any meeting called to adopt a resolution with respect to an issuance of notes will be persons holding or representing a majority in aggregate principal amount of that issuance of notes outstanding at the time and, at any reconvened meeting adjourned for lack of a quorum, 25% of the aggregate principal amount outstanding of that issuance of notes. For purposes of determining whether holders of the aggregate principal amount of notes required for any action or vote, or for any quorum, have taken such action or vote, or constitute such quorum, the principal amount of any particular note may differ from its principal amount at stated maturity but will not exceed its stated face amount upon original issuance, in each case if and as indicated in your pricing supplement. Holders may be entitled to make, take or give certain requests, demands, authorizations, directions, notices, consents, waivers or other action, or to vote on certain actions, authorized or permitted by the fiscal agency agreement with

respect to the notes in accordance with the applicable procedures of the clearing systems and in accordance with such other reasonable procedures as we and the fiscal agent may agree.

Determining Record Dates for Action by Holders

Unless we say otherwise in your pricing supplement, we will be entitled to set any day as a record date for determining which holders or beneficial owners of notes in global form will be entitled to make, take or give certain requests, demands, authorizations, directions, notices, consents, waivers or other action, or to vote on certain actions, authorized or permitted by the fiscal agency agreement with respect to the notes. In addition, record dates for any note in global form may be set in accordance with procedures established by the relevant common depositary or common safekeeper, as applicable, from time to time. Accordingly, record dates for notes in global form may differ from those for other notes.

Payment Mechanics for Notes

Who Receives Payment?

Unless we say otherwise in your pricing supplement, interest will be payable to the person in whose name a registered note is registered at the close of business on the regular record date for the relevant interest payment date. However, interest payable at maturity but on a day that is not an interest payment date will be payable to the person to whom principal is payable. The first payment of interest on any registered note originally issued after a regular record date and before the next interest payment date will be made on the interest payment date following the next regular record date to the person in whose name the note is registered at the close of business on such next succeeding regular record date. Unless we say otherwise in your pricing supplement, the “regular record date” with respect to any global note will be the first business day prior to each interest payment date (as such payment date may be adjusted in accordance with the business day convention) and the “regular record date” with respect to any non-global registered rate note will be the date 15 calendar days prior to each interest payment date, whether or not such date is a business day.

How We Will Make Payments

Unless we say otherwise in your pricing supplement, payments of principal of (and premium, if any) and interest on all notes will be made in the applicable specified currency at the offices and agencies described below. If the exchange rate agent determines, in respect of any payment of principal of (and premium, if any) or interest on a note, that the applicable specified currency has been lawfully eliminated, converted, redenominated or exchanged for a successor currency, then such payment will be made in such successor currency in effect in the relevant country on the relevant payment date. Any calculations under the notes shall be adjusted accordingly by the calculation agent, acting in its sole discretion. In addition, payments of principal of (and premium, if any) and interest on notes denominated in a currency other than U.S. dollars, however, will nevertheless be made in U.S. dollars at our option in the case of imposition of exchange controls or other circumstances beyond our control as described in this subsection under “— When the Specified Currency Is Not Available” below. In the case of an indexed note, the amount of principal payable on such note may be determined by reference to an underlying asset, such as an index or other measure described in the applicable pricing supplement.

Payment on Global Notes

We will make payments on a global note in accordance with the applicable policies of each of Euroclear and Clearstream, Luxembourg or some other depositary or common safekeeper, as applicable, as in effect from time to time. Under those policies, we will pay directly to Euroclear and Clearstream, Luxembourg, and not to any indirect owners who own beneficial interests in the global note. An indirect owner's right to receive those payments will be governed by the rules and practices of Euroclear and Clearstream, Luxembourg and their participants, as described under “— Form, Exchange, Registration and Transfer” below.

Payment on Registered Notes

We will make payments on a note in registered non-global form as follows. We will pay interest that is due on an interest payment date to the holder at his or her address shown on the register for such notes as of the close of business on the regular record date. We will make all other payments by check or via wire transfer at the corporate trust office of the fiscal agent in the Borough of Manhattan, New York City and at the office of the paying agent, against surrender of the note.

When the Specified Currency Is Not Available

If we are obligated to make any payment in a specified currency other than U.S. dollars and the specified currency or any successor currency is not available to us due to circumstances beyond our control — such as the imposition of exchange controls or a disruption in the currency markets — we will be entitled to satisfy our obligation to make the payment in that specified currency by making the payment in U.S. dollars, on the basis of the exchange rate determined by the exchange rate agent described below, in its discretion.

The foregoing will apply to any note, whether in global or non-global form, and to any payment, including a payment at maturity. Any payments made under the circumstances and in a manner described above will not result in a default under any note.

Exchange Rate Agent

If we issue a note in a specified currency other than U.S. dollars, we will appoint a financial institution to act as the exchange rate agent. Unless otherwise specified in the applicable pricing supplement, the exchange rate agent will initially be Goldman Sachs International. We may select Goldman Sachs International or another of our affiliates to perform this role. We may change the exchange rate agent from time to time after the original issue date of the notes without your consent and without notifying you of the change.

All determinations made by the exchange rate agent will be in its sole discretion unless we state in the applicable pricing supplement that any determination requires our approval. In the absence of manifest error, those determinations will be conclusive for all purposes and binding on you and us, without any liability on the part of the exchange rate agent.

Payment When Offices Are Closed

If any payment is due on a note on a day that is not a business day, we will make the payment on the next day that is a business day. Payments postponed to the next business day in this situation will be treated under the applicable note as if they were made on the due date. Postponement of this kind will not result in a default under any note, and no interest will accrue on the postponed amount from the due date to the next day that is a business day. The term business day has a special meaning which we describe under “— Features Common to All Notes — Business Days” above.

The Paying Agent

We have initially appointed as paying agent The Bank of New York Mellon. We may at any time terminate the appointment of any paying agent and appoint additional or other paying agents.

Unclaimed Payments

All money paid by us to a paying agent that remains unclaimed at the end of two years after the amount is due and payable (whether it be principal (and premium, if any) or interest) to a holder will be paid to us. After that two-year period, the holder may look only to us for payment and not to the fiscal agent, any other paying agent or anyone else.

Form, Exchange, Registration and Transfer

Registered Notes

We will issue notes as global notes in registered form. If it is stated in the applicable pricing supplement that the notes are to be issued under NSS, then the notes will be registered in the name of a nominee for a common safekeeper for Euroclear and Clearstream, Luxembourg and we will deliver these notes to a common safekeeper for Euroclear and Clearstream, Luxembourg, which is necessary for notes to be eligible collateral for Eurosystem monetary policy, but does not necessarily mean that the notes will then be recognised as eligible collateral for Eurosystem monetary policy and intra-day credit operations by the Eurosystem at any time during their life.

Global notes in registered form which are not issued under NSS will be deposited with, and registered in the name of a nominee of, a common depository for Euroclear and Clearstream, Luxembourg or other clearing system as specified in the applicable pricing supplement.

Investors may hold book-entry interests in a global note through organizations that participate, directly or indirectly, in the Euroclear and Clearstream, Luxembourg systems. Book-entry interests in the registered notes and all transfers relating to the registered notes will be reflected in the book-entry records of Euroclear and Clearstream, Luxembourg. The initial common depository for Euroclear and Clearstream, Luxembourg will be The Bank of New York Mellon, London Branch. The Depository Trust Company will not be the depository for the notes.

The distribution of the registered notes will be cleared through Euroclear and Clearstream, Luxembourg. Any secondary market trading of book-entry interests in the registered notes will take place through Euroclear and Clearstream, Luxembourg participants and will settle in same-day funds.

Euroclear and Clearstream, Luxembourg have established electronic securities and payment transfer, processing, depository and custodial links among themselves and others, either directly or through custodians and depositories. These links allow securities to be issued, held and transferred among the clearing systems without the physical transfer of certificates. Special procedures to facilitate clearance and settlement have been established among these clearing systems to trade securities across borders in the secondary market.

The policies of Euroclear and Clearstream, Luxembourg will govern payments, transfers, exchanges, setting of record dates and other matters relating to the investor's interest in securities held by them. We have no responsibility for any aspect of the records kept by Euroclear and Clearstream, Luxembourg or any of their direct or indirect participants. We also do not supervise these systems in any way.

Euroclear and Clearstream, Luxembourg and their participants perform these clearance and settlement functions under agreements they have made with one another or with their customers. You should be aware that they are not obligated to perform or continue to perform these procedures and may modify or discontinue them at any time.

Except as provided below, owners of beneficial interests in the registered notes will not be entitled to have the notes registered in their names, will not be entitled to receive physical delivery of the notes in definitive form and will not be considered the owners or holders of the registered notes under the fiscal agency agreement governing the notes. Accordingly, each person owning a beneficial interest in a registered note must rely on the procedures of the depository and, if such person is not a participant, on the procedures of the participant through which such person owns its interest, in order to exercise any rights of a holder of notes.

Any note we issue may be represented by a master global note.

Certificated Notes

We will issue notes to you or your nominees, in fully certificated registered form, only if (1) we advise the fiscal agent in writing that both Euroclear and Clearstream, Luxembourg are no longer willing or able to discharge their responsibilities properly, and the fiscal agent or we are unable to locate qualified successors within 60 days; (2) an event of default with respect to the notes has occurred and is continuing under the notes; or (3) we, at our option, elect to terminate the book-entry system. If any of the three above events occurs, we will reissue the notes (as authenticated by the fiscal agent) in fully certificated, registered form and will recognize the registered holders of the certificated notes as holders under the fiscal agent agreement.

In the event individual certificates for the notes are issued, the holders of such notes will be able to receive payment on the notes, effect transfers and exchanges of the notes and replace lost, stolen, destroyed or mutilated notes at the offices of the Luxembourg paying and transfer agent. We have appointed Banque Internationale à Luxembourg, *société anonyme* as paying and transfer agent in Luxembourg with respect to the notes in individual certificated form. If we add, replace or terminate a paying and transfer agent or fiscal agent, we will give notice in the manner described below.

Unless and until we issue the notes in fully certificated, registered form, (1) you will not be entitled to receive a certificate representing your interest in the notes; (2) all references in this offering circular to actions by holders will refer to actions taken by the depositary, which may act upon instructions from direct participants in Euroclear or Clearstream, Luxembourg; and (3) all references in this offering circular to payments and notices to holders will refer to payments and notices to the depositary, as the registered holder of the notes, which may distribute them to you in accordance with its policies and procedures.

The fiscal agent will mail notices by first class mail, postage prepaid, to each holder's last known address as it appears in the security register that the fiscal agent maintains. The fiscal agent will only mail these notices to the registered holder of the notes, unless we reissue the notes to you or your nominees in fully certificated form.

Extensions for Further Issuances

Without the consent of any holders or the fiscal agent, Goldman Sachs International or any other underwriter, dealer or agent or any other person, we may issue additional notes identical to a prior issue from time to time.

Other Exchanges

Owners of certificated registered notes will be able to exchange them for registered notes of smaller denominations or combined into notes of larger denominations, as long as the total principal amount is not changed. If any registered note is partially redeemed, the owner may similarly exchange the unredeemed portion of a note.

Each note authenticated and delivered upon any transfer or exchange of any note (whether in whole or in part) will carry the same rights to future accrued interest and to interest accrued and unpaid that was carried by the surrendered note (or part thereof).

Special Considerations for Global Securities

As an indirect owner, an investor's rights relating to a global security will be governed by the account rules of the depositary and those of the investor's financial institution or other intermediary through which it holds its interest (e.g., if Euroclear or Clearstream, Luxembourg is the depositary or common safekeeper), as well as general laws relating to securities transfers. We do not recognize this type of investor or any intermediary as a holder of securities and instead deal only with the depositary or common safekeeper that holds the general security.

If securities are issued only in the form of a global security, an investor should be aware of the following:

- an investor cannot cause the securities to be registered in his or her own name, and cannot obtain non-global certificates for his or her interest in the securities, except in the special situations we describe above;
- an investor will be an indirect holder and must look to his or her own bank or broker for payments on the securities and protection of his or her legal rights relating to the securities;
- an investor may not be able to sell interests in the securities to some insurance companies and other institutions that are required by law to own their securities in non-book-entry form;
- an investor may not be able to pledge his or her interest in a global security in circumstances where certificates representing the securities must be delivered to the lender or other beneficiary of the pledge in order for the pledge to be effective;
- the depositary's or common safekeeper's policies will govern payments, deliveries, transfers, exchanges, notices and other matters relating to an investor's interest in a global security, and those policies may change from time to time. We, the fiscal agent and any agent will have no responsibility for any aspect of the depositary's or common safekeeper's policies, actions or records of ownership interests in a global security. We, the fiscal agent and any agent also do not supervise the depositary or common safekeeper in any way;
- the depositary or common safekeeper will require that those who purchase and sell interests in a global security within its book-entry system use immediately available funds and your broker or bank may require you to do so as well; and
- financial institutions that participate in the depositary's or common safekeeper's book-entry system and through which an investor holds its interest in the global securities, directly or indirectly, may also have their own policies affecting payments, deliveries, transfers, exchanges, notices and other matters relating to the securities, and those policies may change from time to time. There may be more than one financial intermediary in the chain of ownership for an investor. We do not monitor and are not responsible for the policies or actions or records of ownership interests of any of those intermediaries.

Considerations Relating to Euroclear and Clearstream, Luxembourg

Euroclear and Clearstream, Luxembourg are securities clearing systems in Europe. Both systems clear and settle securities transactions between their participants through electronic, book-entry delivery of securities against payment. In addition, Euroclear and Clearstream, Luxembourg may be depositaries for a global security.

As long as a global note is held by Euroclear and Clearstream, Luxembourg, you may hold an interest in the global note only through an organization that participates, directly or indirectly, in Euroclear or Clearstream, Luxembourg.

As noted above, payments, deliveries, transfers, exchanges, notices and other matters relating to the notes made through Euroclear and Clearstream, Luxembourg must comply with the rules and procedures of those clearing systems. Those clearing systems could change their rules and procedures at any time. We have no control over those systems or their participants and we take no responsibility for their activities.

In addition, we may provide for other securities clearing systems and other depositaries or common safekeepers in the applicable pricing supplement.

Registration of Transfer

Holders of registered notes may present them for registration of transfer (with the form of transfer properly executed and endorsed) or exchange at the corporate trust office of the fiscal agent or at the office of any transfer agent that we designate for that purpose. Holders will not be required to pay a service charge, but they may be required to pay for any tax or other governmental charge associated with the transfer or exchange, and as described in the fiscal agency agreement. Unless we say otherwise in the applicable pricing supplement, the transfer or exchange, and any replacement, will be made only if our fiscal agent or transfer agent, as the case may be, is satisfied with the documents of title and the identity of the person making the request. The transfer or exchange may also be subject to reasonable regulations that we may from time to time agree upon with the fiscal agent and any transfer agent.

We have initially appointed as security registrar and transfer agent, the fiscal agent acting through its corporate trust office in the Borough of Manhattan, New York City. We have also appointed the paying agent listed at the end of this offering circular as a transfer agent of registered notes. We will name any additional initial transfer agents for any issuance of notes in the applicable pricing supplement. We reserve the right to vary or terminate the appointment of the fiscal agent as security registrar or of any transfer agent or to appoint additional or other registrars or transfer agents or to approve any change in the office through which any registrar or any transfer agent acts. However, there will be at all times a registrar and transfer agent in the Borough of Manhattan, New York City.

If any issuance of notes is redeemable and we redeem less than all those notes, we may block the transfer or exchange of those notes during the period beginning 15 days before the day we mail the notice of redemption and ending on the day of that mailing, in order to freeze the list of holders to prepare the mailing. We may also refuse to register transfers of or exchange any notes selected for redemption, except that we will continue to permit transfers and exchanges of the unredeemed portion of any notes being partially redeemed.

Payment of Stamp and Other Taxes

We shall pay all stamp and other duties, if any, which may be imposed by the United States or any U.S. political subdivision or taxing authority with respect to the fiscal agency agreement or the issuance of the notes. Except as described under “— Payment of Additional Amounts” above, we will not be required to make any payment with respect to any tax, assessment or governmental charge imposed by any government or any political subdivision or taxing authority.

Notices

As long as any notes are listed on the Official List of the Luxembourg Stock Exchange and its rules require, notices to holders of notes will be given by publication in a daily newspaper of general circulation in Luxembourg, which we expect to be the *Luxemburger Wort*, or on the website of the Luxembourg Stock Exchange at <http://www.bourse.lu>. The term “daily newspaper” means a newspaper that is published on each day, other than a Saturday, Sunday or holiday, in Luxembourg or, when applicable, elsewhere in Western Europe. A notice will be considered received on the date it is first published. If notice cannot be given as described in this paragraph because the publication of any newspaper is suspended or it is otherwise impractical to publish the notice, then notice will be given in another form. That alternate form of notice will be sufficient notice to each holder. Notices to be given to holders of notes in registered form will be sent by mail to the respective addresses of the holders as they appear in the security register and will be deemed delivered when mailed. Neither the failure to give notice to a particular holder, nor any defect in a notice given to a particular holder, will affect the sufficiency of any notice given to another holder.

Title

We, the fiscal agent and any of our agents or the fiscal agent may deem and treat the registered owner of any registered note as the absolute owner (whether or not the note is overdue and notwithstanding any notice to the contrary) for the purpose of making payment and for all other purposes.

Replacement of Notes

If your notes become mutilated, destroyed, stolen or lost, we will replace them at your expense upon the delivery to the fiscal agent or the paying agent of the mutilated notes or evidence of the loss, theft or destruction satisfactory to the fiscal agent or the paying agent and us. In the case of a lost, stolen or destroyed note, an indemnity satisfactory to the fiscal agent or the paying agent and us may be required at your expense before a replacement note will be issued, and we may require that you pay any taxes and other governmental charges payable in connection with the replacement of notes and any other expenses (including the fees and expenses of the fiscal agent) connected with the replacement.

UNITED STATES TAXATION

The following is a summary of the principal United States federal income and estate tax consequences to a United States alien holder. You are a United States alien holder if you are the beneficial owner of a note and are, for United States federal income tax purposes:

- a nonresident alien individual;
- a foreign corporation;
- a foreign partnership; or
- an estate or trust that in either case is not subject to United States federal income tax on a net income basis on income or gain for a note

that does not hold the note in connection with the conduct of a trade or business within the United States.

This summary deals only with notes that are properly treated as debt for U.S. federal income tax purposes. The United States federal income tax consequences of owning notes that may not be so treated will be discussed in the applicable pricing supplement.

This discussion assumes that the note is not subject to the rules of Section 871(h)(4)(A) of the Code, relating to interest payments that are determined by reference to the income, profits, changes in the value of property or other attributes of the debtor or a related party. If we issue any notes that are subject to such rules, the United States federal income tax treatment of the notes will be discussed in the applicable pricing supplement.

Prospective purchasers of notes should be advised that any bank which purchases a note will be deemed to represent that it is not purchasing the note in the ordinary course of its lending business and that it is buying the note either (1) for investment purposes only or (2) for resale to a third party that either is not a bank or is holding the note for investment purposes only.

Please consult your own tax advisor concerning the consequences of owning these notes in your particular circumstances under the Internal Revenue Code and the laws of any other taxing jurisdiction.

Under United States federal income and estate tax law, and subject to the discussions below under “—Foreign Account Tax Compliance Withholding”, “—Dividend Equivalent Payments” and “—Backup Withholding and Information Reporting”, if you are a United States alien holder of a note:

(1) we and other U.S. payors generally will not be required to deduct United States federal withholding tax from payments of principal and premium (if any) and interest, including original issue discount, to you if, in the case of payments of interest:

(a) you do not actually or constructively own 10% or more of the total combined voting power of all classes of our stock entitled to vote;

(b) you are not a controlled foreign corporation that is related to us through stock ownership; and

(c) the U.S. payor does not have actual knowledge or reason to know that you are a United States person and:

(A) you have furnished to the U.S. payor a United States Internal Revenue Service Form W-8BEN, Form W-8BEN-E or an acceptable substitute form upon which you certify, under penalties of perjury, that you are not a United States person;

(B) in the case of payments made outside the United States to you at an offshore account (generally, an account maintained by you at a bank or other financial institution at any location outside the United States), you have furnished to the U.S. payor documentation that establishes your identity and your status as the beneficial owner of the payment for United States federal income tax purposes and as a person who is not a United States person;

(C) the U.S. payor has received a withholding certificate (furnished on an appropriate United States Internal Revenue Service Form W-8 or an acceptable substitute form) from a person claiming to be:

(x) a withholding foreign partnership (generally a foreign partnership that has entered into an agreement with the United States Internal Revenue Service to assume primary withholding responsibility with respect to distributions and guaranteed payments it makes to its partners);

(y) a qualified intermediary (generally a non-United States financial institution or clearing organization or a non-United States branch or office of a United States financial institution or clearing organization that is a party to a withholding agreement with the United States Internal Revenue Service); or

(z) a United States branch of a non-United States bank or of a non-United States insurance company;

and the withholding foreign partnership, qualified intermediary or United States branch has received documentation upon which it may rely to treat the payment as made to a person who is not a United States person that is, for United States federal income tax purposes, the beneficial owner of the payments on the notes in accordance with United States Treasury regulations (or, in the case of a qualified intermediary, in accordance with its agreement with the United States Internal Revenue Service);

(D) the U.S. payor receives a statement from a securities clearing organization, bank or other financial institution that holds customers' securities in the ordinary course of its trade or business:

(x) certifying to the U.S. payor under penalties of perjury that a United States Internal Revenue Service Form W-8BEN, Form W-8BEN-E or an acceptable substitute form has been received from you by it or by a similar financial institution between it and you; and

(y) to which is attached a copy of the United States Internal Revenue Service Form W-8BEN, Form W-8BEN-E or acceptable substitute form; or

(E) the U.S. payor otherwise possesses documentation upon which it may rely to treat the payment as made to a person who is not a United States person that is, for United States federal income tax purposes, the beneficial owner of the payments on the notes in accordance with United States Treasury regulations.

(2) no deduction for any United States federal withholding tax will be made from any gain that you realize on the sale or exchange of your note;

(3) a note held by an individual who at death is not a citizen or resident of the United States will not be includible in the individual's gross estate for purposes of the United States federal estate tax if:

(a) the decedent did not actually or constructively own 10% or more of the total combined voting power of all classes of our stock entitled to vote at the time of death; and

(b) the income on the note would not have been effectively connected with a United States trade or business of the decedent at the time of death.

Foreign Account Tax Compliance Withholding (FATCA)

A U.S. law enacted in 2010 (commonly known as “FATCA”) could impose a withholding tax of 30% on interest income (including original issue discount) and other periodic payments on notes paid to you or any non-U.S. person or entity that receives such income (a “non-U.S. payee”) on your behalf, unless you and each such non-U.S. payee in the payment chain comply with the applicable information reporting, account identification, withholding, certification and other FATCA-related requirements. In the case of a payee that is a non-U.S. financial institution (for example, a clearing system, custodian, nominee or broker), withholding generally will not be imposed if the financial institution complies with the requirements imposed by FATCA to collect and report (to the U.S. or another relevant taxing authority) substantial information regarding such institution’s U.S. account holders (which would include some account holders that are non-U.S. entities but have U.S. owners). Other payees, including individuals, may be required to provide proof of tax residence or waivers of confidentiality laws and/or, in the case of non-U.S. entities, certification or information relating to their U.S. ownership.

Withholding may be imposed at any point in a chain of payments if the payee is not compliant. A chain may work as follows, for example: The payment is transferred through a paying agent to a clearing system, the clearing system makes a payment to each of the clearing system’s participants, and finally the clearing system participant makes a payment to a non-U.S. bank or broker through which you hold the notes, who credits the payment to your account. Accordingly, if you receive payments through a chain that includes one or more non-U.S. payees, such as a non-U.S. bank or broker, the payment could be subject to withholding if, for example, your non-U.S. bank or broker through which you hold the notes fails to comply with the FATCA requirements and is subject to withholding. This would be the case even if you would not otherwise have been directly subject to withholding.

A number of countries have entered into, and other countries are expected to enter into, agreements with the U.S. to facilitate the type of information reporting required under FATCA. While the existence of such agreements will not eliminate the risk that notes will be subject to the withholding described above, these agreements are expected to reduce the risk of the withholding for investors in (or investors that indirectly hold notes through financial institutions in) those countries.

The withholding tax described above could apply to all interest and other periodic payments on the notes. We will not pay any additional amounts in respect of this withholding tax, so if this withholding applies, you will receive less than the amount that you would have otherwise received.

Depending on your circumstances, you may be entitled to a refund or credit in respect of some or all of this withholding. However, even if you are entitled to have any such withholding refunded, the required procedures could be cumbersome and significantly delay your receipt of any withheld amounts. You should consult your own tax advisors regarding FATCA. You should also consult your bank or broker through which you would hold the notes about the likelihood that payments to it (for credit to you) may become subject to withholding in the payment chain.

Dividend Equivalent Payments

Section 871(m) of the Code provides for a 30% withholding tax (subject to reduction under an applicable treaty) on “dividend equivalents” that are paid to foreign investors with respect to certain financial instruments that reference the performance of a U.S. equity. Under these rules, if a note provides for “delta-one” exposure to the performance of shares of a U.S. corporation, we will be obligated

to impose U.S. withholding tax in respect of the actual dividends that are paid on the shares of the corporation (or corporations) that are referenced by the note even if we do not actually transmit such amounts to you. This tax will also apply if a note provides for delta-one exposure to an index or basket that includes shares of a U.S. corporation, unless the index or basket constitutes a “qualified index”. If the basket or index is not a “qualified index”, the tax will only apply to the dividends on shares of the U.S. corporations that are included in the index. A note will generally be treated as providing for a “delta-one” position if it provides for 100% participation in all of the appreciation and depreciation in the performance of the shares that are referenced by the note during the term of the note.

Notes issued pursuant to this offering circular will not be subject to withholding under the rules described above. However, a holder may be subject to Section 871(m) even if it holds a note that is not a “delta-one” note under the rules described above if (a) the holder’s position under the note would be “delta-one” when combined with other related positions that are held by the holder or (b) if a principal purpose for the holder’s investment in the note is to avoid the application of Section 871(m), in which case a special Section 871(m) anti-abuse rule could apply to the holder’s investment in the notes. In such a case, a United States alien holder may be liable for Section 871(m) tax in respect of its notes even when no withholding is required in respect of the notes.

Furthermore, notes that are issued on or after January 1, 2021 may be subject to Section 871(m) even if they are not a “delta-one” note under the rules described above. It is possible that the IRS could assert that a note that is issued before such date could be deemed to be reissued for tax purposes after January 1, 2019 upon a rebalancing or adjustment of the asset, position, index or basket that is referenced by the note. In such a case, a note that is originally issued before January 1, 2021 and is not “delta-one” (and is thus originally not subject to Section 871(m)) could be subject to Section 871(m) after the deemed reissuance.

The application of Section 871(m) to the notes is complex, and there may be uncertainties regarding the application of Section 871(m) to the notes. If you are a United States alien holder, you should consult your tax advisor about the application of Section 871(m) to your notes.

Backup Withholding and Information Reporting

In general, we and other payors are required to report payments of interest on your notes on IRS Form 1042-S. Payments of principal, premium or interest, including OID, made by us and other payors to you would otherwise not be subject to information reporting and backup withholding, provided that the certification requirements described in clause (1)(c) above are satisfied or you otherwise establish an exemption.

In addition, payment of the proceeds from the sale of notes effected at a United States office of a broker will not be subject to backup withholding and information reporting if (i) the payor or broker does not have actual knowledge or reason to know that you are a United States person and (ii) you have furnished to the payor or broker an appropriate IRS Form W-8, an acceptable substitute form or other documentation upon which it may rely to treat the payment as made to a non-United States person.

In general, payment of the proceeds from the sale of notes effected at a foreign office of a broker will not be subject to information reporting or backup withholding. However, a sale effected at a foreign office of a broker could be subject to information reporting in the same manner as a sale within the United States (and in certain cases may be subject to backup withholding as well) if (i) the broker has certain connections to the United States, (ii) the proceeds or confirmation are sent to the United States or (iii) the sale has certain other specified connections with the United States. In addition, certain foreign brokers may be required to report the amount of gross proceeds from the sale or other disposition of notes under FATCA if you are, or are presumed to be, a United States person.

You generally may obtain a refund of any amounts withheld under the backup withholding rules that exceed your income tax liability by filing a refund claim with the IRS.

PLAN OF DISTRIBUTION

We and Goldman Sachs International, as the agent, have entered into a distribution agreement with respect to the notes. Subject to certain conditions, the agent has agreed to use its reasonable efforts to solicit purchases of notes. We have the right to accept offers to purchase notes and may reject any proposed purchase of the notes. The agent may also reject any offer to purchase notes.

We may also sell notes to the agent who will purchase the notes as principal for its own account. In that case, the agent will purchase the notes at a price equal to the issue price specified in the applicable pricing supplement, less a discount. The discount will equal the applicable commission on an agency sale of the notes with the same stated maturity.

The agent may resell any notes it purchases as principal to other brokers or dealers at a discount, which may include all or part of the discount the agent received from us. If all the notes are not sold at the initial offering price, the agent may change the offering price and the other selling terms.

We may also sell notes directly to investors. We will not pay commissions on notes we sell directly. In addition, we may enter into further distribution agreements with agents other than Goldman Sachs International with respect to the notes.

The notes are not, and will not be, registered under the United States Securities Act of 1933, as amended, and may not be offered or sold within the United States or to, or for the account or benefit of, U.S. persons except in certain transactions exempt from the registration requirements of the Securities Act. (Terms used in this paragraph have the meanings given to them by Regulation S under the Securities Act.)

The notes are a new issue of securities, and there will be no established trading market for any note before its original issue date. We have been advised by Goldman Sachs International that it intends to make a market in the notes. However, neither Goldman Sachs International nor any of our other affiliates nor any other agent named in your pricing supplement 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.

We may use this offering circular in the initial sale of any note. In addition, Goldman Sachs International or any of our other affiliates may use this offering circular in a market-making transaction in any note after its initial sale. Unless we (or our agent) inform the purchaser otherwise in the confirmation of sale, this offering circular is being used in a market-making transaction.

Goldman Sachs International has agreed in the distribution agreement that, with respect to all notes issued as a part of the same tranche (within the meaning of Regulation S under the Securities Act), it will not offer, sell or deliver such notes, (1) as part of their distribution at any time or (2) otherwise until 40 days after the later of (A) the completion of the distribution of such tranche of notes as determined by Goldman Sachs International and (B) the closing date of such tranche of notes (or such other date as The Goldman Sachs Group, Inc. may, in its sole discretion, deem necessary to comply with Regulation S) within the United States or to, or for the account or benefit of, U.S. persons except, in either case, in accordance with Regulation S under the Securities Act, and it will have sent to each dealer to which it sells such notes during the restricted period a confirmation or other notice describing the restrictions on offers and sales of notes within the United States or to, or for the account or benefit of, U.S. persons.

Selling Restrictions

Prohibition of Sales to EEA Retail Investors

Unless the pricing supplement in respect of any notes specifies "Prohibition of Sales to EEA Retail Investors" as "Not Applicable", Goldman Sachs International has represented and agreed, and each

further dealer or offeror of the notes appointed under the program will be required to represent and agree, that it has not offered, sold or otherwise made available and will not offer, sell or otherwise make available any notes which are the subject of the offering contemplated by this offering circular as completed by the pricing supplement in relation thereto to any retail investor in the European Economic Area.

For the purposes of this provision:

- (a) the expression “retail investor” means a person who is one (or more) of the following:
 - (i) a retail client as defined in point (11) of Article 4(1) of MiFID II; or
 - (ii) a customer within the meaning of the Insurance Distribution Directive, where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or
 - (iii) not a qualified investor as defined in the Prospectus Directive; and
- (b) the expression an “offer” includes the communication in any form and by any means of sufficient information on the terms of the offer and the notes to be offered so as to enable an investor to decide to purchase or subscribe the notes.

If the pricing supplement in respect of any notes specifies the “Prohibition of Sales to EEA Retail Investors” as “Not Applicable” in relation to each EEA Member State which has implemented the Prospectus Directive (each, a “Relevant Member State”), Goldman Sachs International has represented and agreed, and each further dealer or offeror of the notes appointed under the program will be required to represent and agree, that with effect from and including the date on which the Prospectus Directive is implemented in that Relevant Member State (the “Relevant Implementation Date”), it has not made and will not make an offer of notes to the public in that Relevant Member State except that it may, with effect from and including the Relevant Implementation Date, make an offer of notes to the public in that Relevant Member State:

- (a) at any time to any legal entity which is a qualified investor as defined in the Prospectus Directive;
- (b) at any time to fewer than 150 natural or legal persons (other than qualified investors as defined in the Prospectus Directive) subject to obtaining the prior consent of Goldman Sachs International or any other dealer nominated by the Issuer for any such offer; or
- (c) at any time in any other circumstances falling within Article 3(2) of the Prospectus Directive,

provided that no such offer of notes referred to in (a) to (c) above shall require The Goldman Sachs Group, Inc. or Goldman Sachs International to publish a prospectus pursuant to Article 3 of the Prospectus Directive or supplement a prospectus pursuant to Article 16 of the Prospectus Directive.

For the purposes of the foregoing, the expression an “offer of notes to the public” in relation to any notes in any Relevant Member State means the communication in any form and by any means of sufficient information on the terms of the offer and the notes to be offered so as to enable an investor to decide to purchase or subscribe the notes, as the same may be varied in that Relevant Member State by any measure implementing the Prospectus Directive in that Relevant Member State and the expression “Prospectus Directive” means Directive 2003/71/EC (as amended, including by Directive 2010/73/EU), and includes any relevant implementing measure in the Relevant Member State.

This offering circular has been prepared on the basis that any offer of notes in any Relevant Member State will be made pursuant to an exemption under the Prospectus Directive, as implemented in that Relevant Member State, from the requirement to publish a prospectus for offers of notes. Accordingly, any person making or intending to make an offer in that Relevant Member State of notes which are the

subject of a placement contemplated in this offering circular as completed by the relevant pricing supplement in relation to the offer of those notes may only do so in circumstances in which no obligation arises for the Issuer to publish a prospectus pursuant to Article 3 of the Prospectus Directive or supplement a prospectus pursuant to Article 16 of the Prospectus Directive, in each case, in relation to such offer. The Goldman Sachs Group, Inc. has not authorised, nor does it authorise, the making of any offer of notes in circumstances in which an obligation arises for the Issuer to publish or supplement a prospectus for such offer.

Goldman Sachs International has represented and agreed, and each further dealer appointed under the Program will be required to represent and agree that, in relation to any offering of notes to which MiFID II applies, that such offering is in accordance with the applicable rules set out in MiFID II (including any applicable national transposition of MiFID II), including that any commission, fee or non-monetary benefit received from the relevant Issuer complies with such rules.

Notwithstanding the above, in the case where the Pricing Supplement in respect of any notes does not specify “Prohibition of Sales to EEA Retail Investors” to be not applicable but where the Issuer subsequently prepares and publishes a key information document under Regulation (EU) No 1286/2014 (the “PRIIPs KID Regulation”) in respect of such notes, then following such publication, the prohibition on the offering, sale or otherwise making available the notes to a retail investor as described above shall no longer apply.

Other Selling Restrictions

Argentina

The offering of notes has not been authorised by and the notes have not been registered with, the Argentine Securities and Exchange Commission (*Comisión Nacional de Valores*, “CNV”). The CNV has neither approved nor disapproved the notes, nor has the CNV passed upon or endorsed the merits of any offering or the accuracy or adequacy of the offering circular or pricing supplement. The notes may not be offered or sold in Argentina except in transactions that may not constitute a public offering of securities within the meaning of Sections 2 and 83 of the Capital Markets Law No. 26,831, as amended.

Austria

In addition to the cases described in the section headed “Prohibition of Sales to EEA Retail Investors”, in which the notes may be offered to the public in a Relevant Member State (including Austria), the notes may be offered to the public in Austria only:

- (a) in case of a Non-exempt Offer of notes in Austria if the following conditions have been satisfied, all as prescribed by the Austrian Capital Market Act (*Kapitalmarktgesetz*, Federal Law Gazette No 625/1991, as amended, the “KMG”):
 - (i) the offering circular, including any supplements, but excluding any pricing supplement, which has been approved by the Austrian Financial Market Authority (*Finanzmarktaufsichtsbehörde*, the “FMA”) as the competent authority in Austria or, where appropriate, approved in another EEA Member State and notified to the FMA and the European notes and Markets Authority (ESMA), all in accordance with the Prospectus Directive, has been published at least one Austrian bank working day prior to the commencement of the relevant offer of the notes to the public; and
 - (ii) In addition, the notes have not been and will not be offered, sold or publicly promoted the applicable pricing supplement for the notes have been published, and in case Austria is the home EEA Member State (in the meaning of the Prospectus Directive and the KMG) filed with the FMA (or a body commissioned by the FMA), as soon as practicable and if possible in advance of commencement of the relevant offer of the notes to the public; and
 - (iii) a notification pursuant to section 13 of the KMG with the Austrian Control Bank (*Oesterreichische Kontrollbank Aktiengesellschaft*), has been filed as soon as possible, but in any event prior to the commencement of the relevant offer of the notes to the public; or
- (b) otherwise in compliance with the KMG, which may require the filing of a notification pursuant to section 13 of the KMG with the Austrian Control Bank (*Oesterreichische Kontrollbank Aktiengesellschaft*) as soon as possible, but in any event prior to the commencement of the relevant offer of the notes.

In addition, any offer and sale of the notes must be made in compliance with the provisions of the Austrian Securities Supervision Act 2018 (*Wertpapieraufsichtsgesetz* 2018, Federal Law Gazette No 107/2017, as amended), the Austrian Act on Alternative Investment Fund Managers (*Alternative Investmentfonds Manager-Gesetz*, Federal Law Gazette No 135/2013, as amended) and all other applicable legislation and regulations in Austria. Notes that qualify as units of an alternative investment fund (AIF) according to the Austrian Act on Alternative Investment Fund Managers may not be offered or sold in Austria without (i) prior passporting to Austria according to the Alternative Investment Fund Managers Directive (Directive 2011/61/EU of the European Parliament and of the Council of 8 June 2011) in case of an offering that is exclusively addressed to professional investors or (ii) prior registration in Austria in case of any other offerings.

For the purposes of this Austrian selling restriction, the expression “an offer of the notes to the public” means any communication to the public in any form and by any means of sufficient information on the terms of the offer and the notes to be offered so as to enable an investor to decide to purchase or subscribe for the notes.

Due to the entry into force of the EU Prospectus Regulation (Regulation (EU) 2017/1129) in July 2019, the KMG will be amended. As of the date of this offering circular, only a draft of the amendment exists, according to which the KMG will be completely repealed and a new statute will be enacted. As a consequence, references to sections of the KMG contained herein may, upon entry into force of the new statute, no longer be correct. Persons who are subject to obligations under the KMG are requested to inform themselves about the amendment and the new statute.

Bahamas

The notes may not be offered or sold in or from within The Bahamas unless the offer or sale is made by a person appropriately licensed or registered to conduct securities business in or from within The Bahamas.

The notes may not be offered or sold to persons or entities deemed resident in The Bahamas pursuant to the Exchange Control Regulations, 1956 of The Bahamas unless the prior approval of the Central Bank of The Bahamas is obtained.

No offer or sale of the notes may be made in The Bahamas unless a preliminary offering circular and an offering circular have been filed with the Securities Commission of The Bahamas and the Securities Commission of The Bahamas has issued a receipt for each document, unless such offering is exempted pursuant to the Securities Industry Act, 2011 and the Securities Industry Regulations, 2012. This offering circular has not been registered with the Securities Commission of The Bahamas, nor have any applications been made to exempt such offer from the filing of an offering circular with the Securities Commission of The Bahamas under the Securities Industries Act, 2011. No offer or sale of any notes of the Issuer can be made in The Bahamas unless the offer of the notes is made by or through a firm which is registered with the Securities Commission of The Bahamas to engage in the business of dealing in securities in The Bahamas and in compliance with Bahamian Exchange Control Regulations.

Belgium

For selling restrictions in respect of Belgium, please see “Prohibition of Sales to EEA Retail Investors” above.

In addition, any offeror of notes will be required to represent and agree that it will not offer for sale, sell or market notes to any person qualifying as a consumer within the meaning of Article I.1.2 of the Belgian Code of Economic Law, as amended from time to time, unless such offer, sale or marketing is made in compliance with this Code and its implementing regulation.

Brazil

The notes have not been, and will not be, registered with the Brazilian Securities and Exchange Commission (*Comissão de Valores Mobiliários*, the “CVM”). The notes may not be offered or sold in Brazil, except in circumstances that do not constitute a public offering or unauthorised distribution of securities in Brazil or an undue solicitation of investors under Brazilian laws and regulations. Any documents or other materials relating to any offering of the notes, as well as the information contained herein, may not be supplied in Brazil as part of any public offering, unauthorised distribution or undue solicitation of investors, and may not be used in connection with any offer for subscription, sale, unauthorised distribution of the notes or undue solicitation of investors in Brazil.

British Virgin Islands (“BVI”)

This offering circular and any related pricing supplement is not an offer to sell, or a solicitation or invitation to make offers to purchase or subscribe for, the notes or any other securities or investment business services in the BVI. This offering circular and any related pricing supplement may not be sent or distributed to persons in the BVI and the notes are not available to, and no invitation or offer to subscribe, purchase or otherwise acquire the notes will be made to, persons in the BVI. However, the notes may be offered and sold to business companies incorporated in the BVI and international limited partnerships formed in the BVI, provided that any such offering and sale is made outside the BVI or the notes may be offered and sold as is otherwise permitted by BVI legislation.

Although not currently in force, it is possible that Part II of the Securities and Investment Business Act, 2010 of the BVI (“SIBA”) will be brought into force and become law in the BVI in the near future. Upon Part II of SIBA coming into force, the notes may not be offered to the public or to any person in the BVI for purchase or subscription by or on behalf of the Issuer. The notes may continue to be offered to business companies incorporated in the BVI and international limited partnerships formed in the BVI, but only where the offer will be made to, and received by, the relevant company or limited partnership outside of the BVI. Once Part II of SIBA comes into force, the notes may also be offered to persons located in the

BVI who are “qualified investors” for the purposes of SIBA and/or who agree to a minimum subscription amount that equals or exceeds the minimum amount to be specified in the Public Issuers Code.

This offering circular has not been reviewed or approved by, or registered with, the Financial Services Commission of the BVI. No registered prospectus has been or will be prepared in respect of the notes for the purposes of the SIBA, the Public Issuers Code of the British Virgin Islands or otherwise.

The Goldman Sachs Group, Inc. is incorporated and regulated in the United States and does not carry on business in or from within, or have a place of business in, the British Virgin Islands and is not regulated by the Financial Services Commission of the British Virgin Islands. All activities and services of the Issuer are performed and provided outside of the British Virgin Islands.

This document is addressed solely to (i) licensees and to persons who are not members of the public for the purposes of SIBA; (ii) persons who hold a category 4 licence under SIBA (“Investment Advisors”) and to any client of the Investment Advisor to whom the Investment Advisor provides this document; and (iii) professional service providers of BVI business companies (collectively, “Exempt Persons”). Neither this document nor any part of it may be provided in any form to any person who is not an Exempt Person. Any person who receives this document or any part of it who is not an Exempt Person should disregard it in its entirety.

Bulgaria

For selling restrictions in respect of Bulgaria, please see “Prohibition of Sales to EEA Retail Investors” above.

Cayman Islands

Goldman Sachs International and each further dealer or offeror of the notes has represented and agreed, and each further dealer appointed under the Program will be required to represent and agree, that it shall not offer and sell notes from a place of business within the Cayman Islands (including an offering from an internet or other electronic service provider located in the Cayman Islands) or in a manner constituting the establishment of a place of business or the commencement of business in the Cayman Islands unless it is appropriately registered and licensed or otherwise permitted to undertake such an offer or sale under applicable laws (including, without limitation, the Securities Investment Business Law of the Cayman Islands).

Goldman Sachs International and each further dealer or offeror of the notes may therefore offer and sell notes to investors resident and incorporated in the Cayman Islands without restriction on such dealer if such dealer and the Issuer is, according to applicable Cayman Islands law, not located in the Cayman Islands (as a branch, an incorporated entity, a resident or otherwise) and does not have a place of business in and/or has not commenced the carrying on of business in the Cayman Islands.

No notes may be sold by or on behalf of the Issuer within the Cayman Islands if such sale would require the Issuer to be registered as a foreign company under the Companies Law (2018 Revision) of the Cayman Islands.

None of the notes shall be sold to or offered by way of subscription to any member of the public in the Cayman Islands whether directly or indirectly.

Chile

The purchaser represents, warrants and agrees with Goldman Sachs that the Issuer and the notes have not been, and will not be, registered with the Chilean Commission for the Financial Market (Comisión para el Mercado Financiero, “CMF”) pursuant to Law No. 18.045 (*Ley de Mercado de Valores*, “Securities Market Act”), as amended, of the Republic of Chile and, accordingly, no person shall offer or

sell the notes within Chile or to, or for the account or benefit of, persons in Chile except in circumstances which have not resulted and will not result in a public offering and/or in the conduct of intermediation (*funciones de intermediación*) within the meaning of Chilean law.

The offer of any notes pursuant to this offering circular begins on the date of issuance of the relevant pricing supplement. Any such offer of notes complies with General Rule N°. 336 of the CMF. Since the notes to which an offer relates have not been registered in the Foreign Securities Registry of the CMF, they are not subject to the supervision of such entity. As any offer of notes pursuant to this offering circular does not relate to registered securities, there is no obligation on the Issuer to deliver in Chile public information regarding the notes. The notes may not be publicly offered in Chile as long as they are not registered in the corresponding Securities Registry.

The above paragraph has to be reproduced in Spanish in order to comply with the General Rule N°336. Therefore, the following paragraph is only a translation into Spanish of this paragraph's disclaimers and does not contain any additional statement.

Esta oferta comienza el día que se emitan los pricing supplement. Esta oferta de valores cumple con la Norma de Carácter General 336 de la CMF. Dado que esta oferta versa sobre valores no inscritos en el Registro de Valores Extranjeros que lleva dicha Comisión, tales valores no están sujetos a la fiscalización de ésta. Como esta oferta de valores se refiere a valores no inscritos, no existe la obligación por parte de su emisor de entregar en Chile información pública respecto de dichos valores. Estos valores no podrán ser objeto de oferta pública mientras no sean inscritos en el Registro de Valores correspondiente.

Colombia

This offering circular, together with the pricing supplement for each issue of notes, is for the sole and exclusive use of the recipient as a determined individual/entity, and may not be relied upon by any third party, including but not limited to third parties whom the recipient represents, nor any of the recipient's shareholders, administrators or employees. Any material to be delivered in Colombia or to any person located, domiciled or established in Colombia, shall be for the sole and exclusive use of the recipient.

This offering circular, together with the pricing supplement for each issue of notes, has not been and will not be filed with or approved by the Colombian Financial Superintendency or any other regulatory authority in Colombia.

The issuance of the notes, its trading and payment shall occur outside Colombia; therefore the notes have not been and will not be registered before the Colombian National Registry of Issuers and Securities, nor with the Colombian Stock Exchange. The delivery of this offering circular or the pricing supplement for each issue of notes does not constitute a public offer of securities under the laws of Colombia. This offering circular, together with the pricing supplement for each issue of notes, does not constitute and may not be used for, or in connection with, a public offering as defined under Colombian law and shall be valid in Colombia only to the extent permitted by Colombian law. Under Colombian regulations, any offering addressed to 100 or more named individuals or companies shall be deemed to be an offering to the public requiring the prior approval of the Colombian Financial Superintendency and listing on the Colombian National Registry of Issuers and Securities.

The notes may not be solicited, publicly offered, transferred, sold or delivered, whether directly or indirectly, to any individual or legal entity in Colombia.

Colombian laws and regulations (including but not limited to foreign exchange and tax regulations) are applicable to any transaction or investment made in connection with this offering circular or the pricing supplement for each issue of notes and the recipient is the sole responsible party for full compliance with any such laws and regulations. Additionally, Colombian investors are solely liable for conducting an investment suitability analysis as per their applicable investment regime.

Costa Rica

Any offer of notes under this offering circular will be an individual and private offer which is made in Costa Rica upon reliance on an exemption from registration before the General Superintendence of Securities ("SUGEVAL"), pursuant to articles 6 and 7 of the Regulations on the Public Offering of Securities (*Reglamento sobre Oferta Pública de Valores*).

This offering is NOT a public offering of securities in Costa Rica.

The product being offered is not intended for the Costa Rican public or market and neither is it registered or will it be registered before the SUGEVAL, nor can it be traded in the secondary market.

Czech Republic

For selling restrictions in respect of the Czech Republic, please see "Prohibition of Sales to EEA Retail Investors", with the following exceptions:

"Qualified investors" for the purpose of a Czech offering are (a) persons specified in Article 2a paragraph 1 and 2 of Act No. 256/2004 Coll., on Capital Markets Undertakings, as amended (the "Czech Capital Markets Act") and/or (b) persons who are considered as professional customers under Article 2b of the Czech Capital Markets Act, to the extent of trading or investment instruments relating to the offered notes.

The monetary amount relevant for the exemption from the obligation to publish a prospectus under Article 3 (2) (c), (d), and (e) of the Prospectus Directive is determined by the applicable governmental regulations, as amended and/or replaced from time to time.

Denmark

This offering circular has not been filed with or approved by the Danish Financial Supervisory Authority or any other regulatory authority in the Kingdom of Denmark. The notes have not been offered or sold and may not be offered, sold or delivered directly or indirectly in Denmark, unless in compliance with Chapter 3 of the Danish Act on Capital Markets (in Danish "*Lov om Kapitalmarkeder*") of 8 January 2018 and executive orders issued pursuant thereto as amended from time to time.

Dominican Republic

The issuance, circulation and offering of the notes has a strictly private character according to the laws of the Dominican Republic, falling beyond the scope of articles 1 numeral (31), 46 et al of Law 249-17 dated 19 December 2017, as amended. Since no governmental authorisations are required in this issuance, circulation and offering, the notes under this offering circular have not been and will not be registered with the Superintendence of Securities of the Dominican Republic (*Superintendencia de Valores de la República Dominicana*), considering that and notes will only be circulated, offered and sold in the Dominican Republic in a private manner based on the criteria established under Dominican laws and regulations.

Dubai International Financial Centre

This offering circular relates to an Exempt Offer in accordance with the Markets Rules of the Dubai Financial Services Authority (the “DFSA”).

This offering circular is intended for distribution only to Professional Clients (as defined in the DFSA Rules, as amended) who are not natural persons. It must not be delivered to, or relied on by, any other person.

The DFSA has no responsibility for reviewing or verifying any documents in connection with Exempt Offers. The DFSA has not approved this offering circular nor taken steps to verify the information set out in it, and has no responsibility for it.

The notes to which this offering circular relates may be illiquid and/or subject to restrictions on their resale. Prospective purchasers of the notes offered should conduct their own due diligence on the notes.

If you do not understand the contents of this Offering circular you should consult an authorised financial adviser.

El Salvador

This offering circular has been provided to the recipient under the recipient's express request and instructions, and on a private placement basis.

Finland

For selling restrictions in respect of Finland, please see “Prohibition of Sales to EEA Retail Investors” above.

This offering circular has not been filed with or approved by the Finnish Financial Supervisory Authority. The notes may only be offered or sold in compliance with all applicable provisions of the laws of Finland and especially in compliance with the Finnish Securities Market Act (arvopaperimarkkinalaki (746/2012), as amended) and any regulation or rule made thereunder, as supplemented and amended from time to time.

France

- 1) This offering circular has not been approved by the *Autorité des marchés financiers*.
- 2) Goldman Sachs International has represented and agreed, and each further dealer or offeror appointed will be required to represent and agree, that

it has not offered or sold and will not offer or sell, directly or indirectly, notes to the public in France, and has not distributed or caused to be distributed and will not distribute or cause to be

distributed to the public in France, the offering circular, the relevant pricing supplement or any other offering material relating to the notes, and that such offers, sales and distributions have been and will be made in France only to (a) providers of the investment service of portfolio management for the account of third parties (*personnes fournissant le service d'investissement de gestion de portefeuille pour compte de tiers*), (b) qualified investors (*investisseurs qualifiés*) acting for their own account (other than individuals), (c) a restricted group of investors (*cercle restreint d'investisseurs*) acting for their own account, and/or (d) other investors in circumstances which do not require the publication by the offeror of a prospectus pursuant to the French *Code monétaire et financier* and the *Règlement général* of the *Autorité des marchés financiers*, all as defined in, and in accordance with, articles L. 411-2 and D. 411-1, D. 744-1, D. 754-1 and D. 764-1 of the French *Code monétaire et financier*. The direct or indirect resale of notes to the public in France may be made only as provided by, and in accordance with, articles L. 411-1, L. 411-2, L. 412-1 and L. 621-8 to L. 621-8-3 of the French *Code monétaire et financier*.

In addition, Goldman Sachs International and the Issuer have represented and agreed, and each further dealer or offeror appointed will be required to represent and agree, that it has not distributed or caused to be distributed and will not distribute or cause to be distributed in France, this offering circular, the relevant pricing supplement or any other offering material relating to the notes other than to investors to whom offers and sales of notes in France may be made as described above.

Germany

For selling restrictions in respect of Germany, please see "Prohibition of Sales to EEA Retail Investors" above.

Greece

Directive 2003/71/EC (as amended and in force as of the date hereof) has been transposed in Greece by Greek law 3401/2005 (as in force as of the date hereof). This offering circular (and/or any pricing supplement thereto) has not been approved by the Hellenic Capital Markets Commission for the offer, distribution and marketing of the notes in Greece. For selling restrictions in respect of Greece, please see "Prohibition of Sales to EEA Retail Investors" above.

Hong Kong

No advertisement, invitation or document relating to the notes may be issued, or may be in the possession of any person for the purpose of issue, (in each case whether in Hong Kong or elsewhere), if such advertisement, invitation or document is directed at, or the contents of which are likely to be accessed or read by, the public in Hong Kong (except if permitted to do so under the laws of Hong Kong) other than with respect to notes which are or are intended to be disposed of only to persons outside of Hong Kong or only to "professional investors" within the meaning of the Securities and Futures Ordinance (Cap. 571, Laws of Hong Kong, the "SFO") and any rules made thereunder. In addition, in respect of notes which are not a "structured product" as defined in the SFO, the notes may not be offered or sold by means of any document other than (i) to "professional investors" within the meaning of the SFO and any rules made thereunder; or (ii) in other circumstances which do not result in the document being a "prospectus" within the meaning of the Companies (Winding Up and Miscellaneous) Ordinance (Cap 32, Laws of Hong Kong, the "CO") or which do not constitute an offer to the public within the meaning of the CO.

Unless (a) the notes are not linked to an Underlying Asset or do not otherwise include a derivative and/or (b) you are an institution or are otherwise a sophisticated investor for whom an assessment of the suitability of the notes for you by the selling intermediary is not required under applicable Hong Kong laws, regulations and rules, you should take note of the following warning:

This is a structured product involving derivatives. The investment decision is yours but you should not invest in the notes unless the intermediary who sells it to you has explained to you that the product is suitable for you having regard to your financial situation, investment experience and investment objectives.

Where the notes are not linked to any Underlying Asset or do not otherwise include a derivative, if you are not an institution or a sophisticated investor for whom an assessment of the suitability of the notes for you by the selling intermediary is not required under applicable Hong Kong laws, regulations and rules, you should take note of the following warning:

This is an investment product. The investment decision is yours but you should not invest in the notes unless the intermediary who sells it to you has explained to you that the product is suitable for you having regard to your financial situation, investment experience and investment objectives.

In either case, you should also take note of the following warning:

The contents of this document have not been reviewed by any regulatory authority in Hong Kong. You are advised to exercise caution in relation to the offer. If you are in any doubt about any of the contents of this document, you should obtain independent professional advice.

The Issuer does not accept any responsibility for any acts or omissions of such intermediary.

Hungary

An offer of notes which are the subject of the offering contemplated by this Offering Circular as completed by the relevant pricing supplement in relation thereto (hereinafter an "Offer") is exempt from the obligation to publish a prospectus, if it complies with the terms regulated in Article 3 (2) of the Prospectus Directive (and, as transposed, in Section 14 (1) of Hungarian Act CXX of 2001 on the Capital Market) (the "Capital Market Act") (hereinafter: an "Exempt Offering"). An Offer of Notes is an Exempt Offering under Section 14 (1) of the Capital Market Act in any of the below cases:

- (a) notes are exclusively offered to qualified investors;
- (b) notes are offered to less than one hundred and fifty persons not considered as qualified investors in each EEA Member State;
- (c) notes are exclusively offered to investors each purchasing for at least one hundred thousand euro, or its equivalent in any other currency, from the notes offered;
- (d) the face value of the notes offered is at least one hundred thousand euro, or its equivalent in any other currency;
- (e) the total consideration for all notes in the EU included in the Offer does not exceed one hundred thousand euro, or its equivalent in any other currency, within twelve months from the date of announcement of the Offer; or
- (f) a limited company is created by the transformation of a cooperative society and its shares are offered exclusively to the members and shareholders of the predecessor.

If the Offer is an Exempt Offering, neither this Offering Circular nor Hungarian law requires preliminary approval or notification to the Hungarian National Bank. However, on the basis of Sections 16 and 18 of the Capital Market Act the equal distribution of information to all investors on the material information of the market, economic, financial and legal situation and prospects of the Issuer and the information necessary to assess the rights attaching to the underlying instruments must be ensured by the agents distributing the underlying instruments, and any written Offering Circular must indicate the

private nature of the Offer. In line with Section 17 of the Capital Market Act the completion of the private placement in Hungary requires subsequent notification to the Hungarian National Bank within 15 days of completion.

The respective notes may also be offered in Hungary:

- (a) if the offering of notes is an Exempt Offering; and
- (b) the Pricing Supplement of the respective note provides that an Exempt Offering may be conducted in Hungary, and
- (c) the Issuer complies with the Hungarian rules applicable to the Exempt Offering of the respective note.

If the Offer of the notes is not an Exempt Offering and the approval of this Offering Circular requires notification to the Hungarian National Bank, the Issuer(s) will only offer the notes to the public in Hungary, if all rules specified in the Capital Market Act on such Offer are complied with. The Issuer has not authorised, nor do they authorise, the making of any Offer of the notes in circumstances in which an obligation arises for the Issuer to publish or supplement a prospectus for such offer, except in case a prospectus for such Offer has been approved by the Hungarian National Bank or, where appropriate, approved in another Relevant Member State and notified to the competent authority in that Relevant Member State and (in either case) published, all in accordance with the Prospectus Directive and, where appropriate, the Capital Market Act, provided that any such prospectus has subsequently been completed by final terms which specify that offers may be made other than Exempt Offerings or pursuant to Article 3(2) of the Prospectus Directive in that Relevant Member State and such offer is made on or prior to the date specified for such purpose in such prospectus or final terms, as applicable.

Ireland

In addition to the circumstances referred to in the section entitled “Prohibition of Sales to EEA Retail Investors”, Goldman Sachs International will be required to represent, warrant and agree that it has not offered, sold, placed or underwritten and that it will not offer, sell, place or underwrite the notes, or do anything in Ireland in respect of the notes, otherwise than in conformity with the provisions of:

- (i) the Prospectus (Directive 2003/71/EC) Regulations 2005 (as amended) and any Central Bank of Ireland (“Central Bank”) rules issued and / or in force pursuant to Section 1363 of the Companies Act 2014 (as amended);
- (ii) the Companies Act 2014 (as amended);
- (iii) the European Communities (Markets in Financial Securities) Regulations 2007 (as amended) and it will conduct itself in accordance with any rules or codes of conduct and any conditions or requirements, or any other enactment, imposed or approved by the Central Bank;
- (iv) Regulation (EU) No 596/2014 of the European Parliament and of the Council of 16 April 2014 on market abuse, the European Union (Market Abuse) Regulations 2016 and any Central Bank rules issued and / or in force pursuant to Section 1370 of the Companies Act 2014 (as amended), and will assist The Goldman Sachs Group, Inc. in complying with its obligations thereunder; and
- (v) the Central Bank Acts 1942 to 2018 (as amended) and any codes of conduct rules made under Section 117(1) of the Central Bank Act 1989.

Italy

The below selling restrictions shall apply unless the pricing supplement in respect of any notes specifies the “Prohibition of Sales to EEA Retail Investors” as “Not Applicable”. Please see the section “Prohibition of Sales to EEA Retail Investors” above.

In addition to the restrictions under section “Prohibition of Sales to EEA Retail Investors” above, the offering of the notes has not been registered pursuant to Italian securities legislation and, accordingly, no notes may be offered, sold or delivered, nor may copies of this offering circular or of any other document relating to the notes be distributed in the Republic of Italy, except:

- (i) to qualified investors (*investitori qualificati*), as defined under Article 100 of the Legislative Decree No. 58 of 24 February 1998, as amended (the “Financial Services Act”), as implemented by Article 34-ter, first paragraph, letter b), of CONSOB Regulation No. 11971 of 14 May 1999, as amended (“CONSOB Regulation No. 11971”) and by Article 35, paragraph 1, letter d), of CONSOB Regulation No. 20307 of 15 February 2018, as amended (“CONSOB Regulation No. 20307”); or
- (ii) in other circumstances where an exemption from the rules on public offerings of securities applies pursuant to Article 100 of the Financial Services Act and Article 34-ter, first paragraph, of CONSOB Regulation No. 11971.

Any offer, sale or delivery of the notes or distribution of copies of this offering circular or any other document relating to the notes in the Republic of Italy must be made in compliance with the selling restrictions under points (i) or (ii) above and must be made:

- (a) by an investment firm, bank or financial intermediary permitted to conduct such activities in the Republic of Italy in accordance with the Financial Services Act, CONSOB Regulation No. 20307 and Legislative Decree No. 385 of 1 September 1993, as amended (the “Banking Act”);
- (b) in compliance with Article 129 of the Banking Act, as amended, and the implementing guidelines of the Bank of Italy issued on the 25th of August 2015 and amended on the 26th of August 2016, as amended from time to time, pursuant to which the Bank of Italy may request periodic reporting, data and information on the issue or the offer of securities in the Republic of Italy; and
- (c) in compliance with any other applicable laws and regulations or requirement imposed by CONSOB, the Bank of Italy or any other competent authority.

Please note that in accordance with Article 100-bis of the Financial Services Act, where no exemption from the rules on public offerings applies under (i) and (ii) above, the subsequent resale of the notes on the secondary market in Italy must be made in compliance with the public offer and the prospectus requirement rules provided under the Financial Services Act and CONSOB Regulation No. 11971. Furthermore, the notes which are initially offered and placed in Italy or abroad to qualified investors only but, at any time in the 12 months following such placing, are regularly (“sistematicamente”) resold on the secondary market in Italy to non-qualified investors, become subject to the public offer and the prospectus requirement rules provided under the Financial Services Act and CONSOB Regulation No. 11971. Where this occurs, if a prospectus has not been published, purchasers of the notes who are acting outside of the course of their business or profession may be entitled to declare such purchase void and can claim damages from any authorised intermediary from which the notes were purchased.

Japan

The notes have not been and will not be registered under the Financial Instruments and Exchange Act of Japan (Law No. 25 of 1948, as amended, the “FIEA”) and, accordingly, Goldman Sachs International and each further dealer or offeror of the notes has agreed and each further dealer to be appointed under the program will be required to agree that it will not offer or sell any notes, directly or indirectly, in Japan, or to, or for the benefit of, any resident of Japan (which term as used herein means any person resident in Japan, including any corporation or other entity organized under the laws of Japan), or to others for reoffering or resale, directly or indirectly, in Japan or to any resident of Japan, except pursuant to an exemption from the registration requirements of, and otherwise in compliance with, the FIEA and any other applicable laws, regulations and ministerial guidelines of Japan.

Jersey

No consent of the Jersey Financial Services Commission under Article 8(2) of the Control of Borrowing (Jersey) Order 1958 has been obtained for the circulation in Jersey of any offer for subscription, sale or exchange of notes and any such offer must be addressed exclusively to a restricted circle of persons in Jersey. For these purposes an offer is not addressed exclusively to a restricted circle of persons unless (i) the offer is addressed to an identifiable category of persons to whom it is directly communicated by the offeror or the offeror’s appointed agent, (ii) the members of that category are the only persons who may accept the offer and they are in possession of sufficient information to be able to make a reasonable evaluation of the offer and (iii) the number of persons in Jersey to whom the offer is so communicated does not exceed 50.

Liechtenstein

For selling restrictions in respect of Liechtenstein, please see “Prohibition of Sales to EEA Retail Investors” above.

Luxembourg

For selling restrictions in respect of Luxembourg, please see “Prohibition of Sales to EEA Retail Investors” above.

Mexico

The notes have not been and will not be registered with the Mexican National Securities Registry (*Registro Nacional de Valores*), maintained by the Mexican National Banking and Securities Commission (*Comisión Nacional Bancaria de Valores*), and may not be offered or sold publicly in Mexico. The notes may be sold in Mexico, by any person, including the Issuer, pursuant to the private placement exemption set forth in Article 8 of the Mexican Securities Market Law (*Ley del Mercado de Valores*), to institutional and qualified investors and under the terms specified in such Article.

Each potential investor in the notes shall be deemed to represent and warrant to the Issuer that it is a qualified investor under the regulations issued by the Mexican National Banking and Securities Commission (*Comisión Nacional Bancaria de Valores*; the “CNBV”), that is to say, it is an individual or corporation that (i) during the last 360 day period, maintained moneys invested in securities, in an amount equal to or exceeding approximately U.S.\$ 400,000 (or 1,500,000 investment units) or (ii) during the last two calendar years, had gross annual revenues in an amount equal to or exceeding approximately U.S.\$ 150,000 (or 500,000 investment units) or that it is an institutional investor under the regulations of the CNBV, that is to say, it is a broker-dealer, a banking institution, an insurance company, a licensed warehouse, a licensed leasing company, a licensed factoring company, a regulated mutual fund or a regulated pension or retirement fund, and that, as a result, the relevant Issuer may rely on the private placement exemption set forth in Article 8 of the Mexican Securities Market Law to offer the notes.

Norway

For selling restrictions in respect of Norway, please see “Prohibition of Sales to EEA Retail Investors “ above.

In no circumstances may an offer of notes be made in the Norwegian market without the Instruments or Notes being registered in the VPS in dematerialised form, to the extent such Instruments or notes shall be registered, according to the Norwegian Securities Registry Act (*Nw. Verdipapirregisterloven, 2002*) and ancillary regulations.

Panama

The notes, as well as their offer, sale or their trading procedures have not been and will not be registered with the Superintendency of Capital Markets of the Republic of Panama. The notes may not be publicly offered or sold within Panama, except in certain limited transactions exempted from the registration requirements of Law Decree No. 1 of 8 July 1999 and Law 67 of 1 September 2011 (the “Panamanian Securities Act”).

Institutional investors that purchase the notes pursuant to the institutional investor exemption must hold the notes for a year and during that period may only sell these notes to other institutional investors.

The exemption from registration is based on paragraph (3) of Article 129 of the Amended and Restated Text of Law Decree N°1 of July 8, 1999 (institutional investors). Accordingly, the tax treatment set forth in Articles 334 thru 336 of said Amended and Restated Text of Law Decree N°1 of July 8, 1999 is not applicable and the notes are not subject to the supervision of the Superintendency of Capital Markets in the Republic of Panama.

Paraguay

This offering circular does not constitute a public offering of notes or other financial products and services in Paraguay. Each purchaser of notes acknowledges that the notes and financial products to be offered under this offering circular will be issued outside of Paraguay. Each purchaser of notes acknowledges that any legal matter arising from any offer of notes shall not be submitted to any Paraguayan government authority. Each purchaser of notes acknowledges as well that the Paraguayan Deposit Insurance legislation does not cover the products offered hereby or assets or funds allocated for these purposes. The Paraguayan Central Bank, the Paraguayan National Stock Exchange Commission and the Paraguayan Banking Superintendence do not regulate the offering of these products or their undertaking. Each purchaser of notes should make his own decision whether this offering meets his investment objectives and risk tolerance level.

Peru

The notes and this offering circular (and any related pricing supplement) have not been registered in Peru under the *Decreto Supremo N° 093-2002-EF: Texto Único Ordenado de la Ley del Mercado de Valores* (the “Peruvian Securities Law”) nor have they been approved by the *Superintendencia del Mercado de Valores* and cannot be offered or sold in Peru except in a private offering under the meaning of the Peruvian Securities Law. The Peruvian Securities Law provides that an offering directed exclusively to “institutional investors” (as defined in the Institutional Investors Market Regulations) qualifies as a private offering. The notes acquired by institutional investors in Peru cannot be transferred to a third party, unless such transfer is made to another institutional investor or the notes have been previously registered with the *Registro Público del Mercado de Valores* maintained by the *Superintendencia del Mercado de Valores*.

Poland

Goldman Sachs International has represented and agreed, and each further offeror appointed under this offering circular will be required to represent and agree, that it has not made and will not make an

offer of notes which are the subject of the offering contemplated by this offering circular as completed by the pricing supplement in relation thereto to the public in Poland except that it may, make an offer of such notes to the public in Poland:

- (a) if the pricing supplement in relation to the notes specify that an offer of those notes may be made other than in situations mentioned in Article 7 section 4 of the Polish Act on Public Offers and conditions of introducing financial instruments to organised trading and on public companies of 29 July 2005 (as amended) ("Act on Public Offers") (a "Non-exempt Offer"), when a prospectus in relation to such notes has been approved in another EEA Member State and notified to the Polish Financial Supervision Authority, provided that the prospectus has subsequently been completed by the pricing supplement contemplating such Non-exempt Offer, in accordance with the Directive 2003/71/EC (as amended, including by Directive 2010/73/EU) and its implementing measure in the Relevant Member State, in the period beginning and ending on the dates specified in the offering circular or pricing supplement, as applicable, and The Goldman Sachs Group, Inc. has consented in writing to its use for the purpose of that Non-exempt Offer; or
- (b) at any time to any legal entity which is a professional client as defined in Article 3 item 39b) of the Polish Act on Trading in Financial Instruments of 29 July 2005 (as amended); or
- (c) at any time in any other circumstances falling within Article 7 section 4 of the Act on Public Offers that described in (b) above.

For the purposes of this provision, the expression "an offer of notes to the public" in relation to any notes in Poland means public offer as defined in Article 3 section 1 of the Act on Public Offers, i.e. the communication in any form and by any means of sufficient information on the subscription terms and the notes to be offered so as to enable an investor to decide to subscribe the notes, which is at any time addressed to at least 150 natural or legal persons or an unspecified addressee. An offeror of notes acknowledges that the acquisition and holding of notes by residents of Poland may be subject to restrictions imposed by Polish law (including foreign exchange regulations) and that the offer and sale of notes to Polish residents or within Poland in secondary trading may also be subject to restrictions.

Portugal

The notes may only be offered in Portugal in compliance with the provisions of the Portuguese Securities Code (*Código dos Valores Mobiliários*, approved by the Decree-Law 486/99, of November 13, as amended) and other laws and regulations applicable to the offer and sale of the Securities in Portugal. This offering circular has not been verified by the Portuguese Securities Exchange Commission (*Comissão do Mercado de Valores Mobiliários*, or the "CMVM") and the notes are not registered therewith for public offer in Portugal. The recipients of this offering circular and other offering materials in respect of the notes are qualified investors, targeted exclusively on the basis of a private placement, all as defined in and in accordance with articles 30, 109 and 110 of the Portuguese Securities Code. Accordingly, the notes must not be, and are not being, offered or advertised, and no offering or marketing materials relating to the notes may be made available or distributed in any way that would constitute a public offer under the Portuguese Securities Code (whether at present or in the future).

Saudi Arabia

No action has been or will be taken in the Kingdom of Saudi Arabia that would permit a public offering of the notes. Any investor in the Kingdom of Saudi Arabia or who is a Saudi person (a "Saudi Investor") who acquires any notes pursuant to any offering should note that the offer of notes is a private placement under Article 8, Article 9, Article 10 or Article 11 of the "Offers of Securities Regulations" as issued by the Board of the CMA resolution number 2-11-2004 dated 4 October 2004 and amended by the Board of the CMA resolution number 1-28-2008 dated 18 August 2008 and resolution number 3-151-2016 dated 21 December 2016 and amended by the Board of the CMA resolution number 3-45-2018 dated 23 April 2018 (the "KSA Regulations") for the purposes of Article 10 of the KSA Regulations through a person

authorised by the CMA to carry on the securities activity of arranging and following a notification to the CMA under the KSA Regulations.

The notes may thus not be advertised, offered or sold to any person in the Kingdom of Saudi Arabia other than to “sophisticated investors” under Article 11 of the KSA Regulations or by way of a limited offer under Article 10 of the KSA Regulations. Goldman Sachs International and each further dealer or offeror of the notes has represented and agreed, and each further dealer appointed under the program will be required to represent and agree, that any offer of notes will comply with the KSA Regulations.

Each offer of notes shall not therefore constitute a “public offer” pursuant to the KSA Regulations, but is subject to the restrictions on secondary market activity under Article 18 of the KSA Regulations. Any Saudi Investor who has acquired notes pursuant to a private placement under Article 10, Article 11 or Article 10 or is an Exempt offer under Article 6 of the KSA Regulations may not offer or sell those notes to any person unless the offer or sale is made through an authorised person appropriately licensed by the CMA and where one of the following requirements is met:

- (a) An offer of securities is a limited offer if at the subscription is limited to no more than 100 offerees (excluding sophisticated investors) and the minimum amount payable per offeree is not less than one million SR or an equivalent amount. The minimum amount payable per offeree may be less than one million SR where the total value for the offered securities does not exceed five million SR;
- (b) Securities of the same class may not be offered as a limited offer under paragraph (a) of this Article more than once in a twelve-month period ending with the date of the offer in question;
- (c) The offer is an exempt offer;
- (d) The securities are offered or sold to a sophisticated investor; or
- (e) The securities are being offered or sold in such other circumstances as the CMA may prescribe for these purposes.

All the above restrictions shall cease to apply upon approval of listing on the Saudi Stock Exchange of securities of the same class as the securities that are subject to such restrictions.

Singapore

This offering circular has not been registered as a prospectus with the Monetary Authority of Singapore (the “MAS”) under the Securities and Futures Act, Chapter 289 of Singapore (the “SFA”).

Securities

Where the notes are:

- (i) linked to underlying assets which are shares (other than units of a collective investment scheme) of a corporation (whether incorporated in Singapore or elsewhere), debentures of an entity, units in a business trust or any instrument conferring or representing a legal or beneficial ownership interest in a corporation, partnership or limited liability partnership formed in Singapore or elsewhere or a securities-based derivatives contract (as defined under section 2(1) of the SFA), or such other product or class of products prescribed by the MAS (“Non-CIS Reference Items”); or
- (ii) linked to underlying assets which fall within the ambit of a “collective investment scheme” (as defined in the SFA) (the “CIS Reference Items”),

this offering circular and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the notes or the Non-CIS Reference Items may not be circulated or distributed, nor may the notes or the Non-CIS Reference Items be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (i) to an institutional investor (as defined in Section 4A of the SFA and the Securities and Future (Classes of Investors) Regulations 2018) under Section 274 of the SFA, (ii) to a relevant person (as defined in Section 275(2) of the SFA and the Securities and Future (Classes of Investors) Regulations 2018) pursuant to Section 275(1), or any person pursuant to Section 275(1A), and in accordance with the conditions specified in Section 275 of the SFA, or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA.

Where notes or Non-CIS Reference Items are subscribed for or purchased under Section 275 of the SFA by a relevant person which is:

- (a) a corporation (which is not an accredited investor (as defined in Section 4A of the SFA and the Securities and Futures (Classes of Investors) Regulations 2018)) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited investor; or
- (b) a trust (where the trustee is not an accredited investor) whose sole purpose is to hold investments and each beneficiary of the trust is an individual who is an accredited investor,

securities (as defined in the SFA) or securities-based derivatives contracts (as defined in the SFA) of that corporation or the beneficiaries' rights and interest (howsoever described) in that trust shall not be transferred within six months after that corporation or that trust has acquired the notes or Non-CIS Reference Items pursuant to an offer made under Section 275 of the SFA except:

- 1) to an institutional investor or to a relevant person (as defined in Section 275(2) of the SFA and the Securities and Futures (Classes of Investors) Regulations 2018, or to any person arising from an offer referred to in Section 275(1A) or Section 276(4)(i)(B) of the SFA;
- 2) where no consideration is or will be given for the transfer;
- 3) where the transfer is by operation of law; or
- 4) as specified in Section 276(7) of the SFA.

Securities Linked to CIS Reference Items with Physical Delivery

Where the notes are linked to CIS Reference Items and do provide for a right to physical delivery of the CIS Reference Items (whether such right is contingent on the fulfilment of any condition or not), the selling restriction applicable to notes as specified above will apply to such notes linked to CIS Reference Items, and additionally, the offer or invitation of the notes and CIS Reference Items, which is the subject of this offering circular, does not relate to a collective investment scheme which is authorized under Section 286 of the SFA or recognized under Section 287 of the SFA. We are not authorized or recognized by the MAS and the notes and the CIS Reference Items are not allowed to be offered to the retail public. This offering circular and any other document or material issued in connection with the offer or sale is not a prospectus as defined in the SFA, and accordingly, statutory liability under the SFA in relation to the content of prospectuses does not apply, and you should consider carefully whether the investment is suitable for you.

This offering circular and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the CIS Reference Items may not be circulated or distributed, nor may the CIS Reference Items be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (i) to an institutional investor (as defined in the SFA) under Section 304 of the SFA, (ii) to a relevant person (as defined in Section 305(5) of the SFA) pursuant to Section 305(1) or any person pursuant to Section

305(2), and in accordance with the conditions specified in Section 305 of the SFA or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA.

Where CIS Reference Items are subscribed for or purchased under Section 305 of the SFA by a relevant person which is:

- (a) a corporation (which is not an accredited investor (as defined in the SFA)) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited investor; or
- (b) a trust (where the trustee is not an accredited investor) whose sole purpose is to hold investments and each beneficiary of the trust is an individual who is an accredited investor,

securities (as defined in Section 2(1) of the SFA) of that corporation or the beneficiaries' rights and interest (howsoever described) in that trust shall not be transferred within six months after that corporation or that trust has acquired the CIS Reference Items pursuant to an offer made under Section 305 of the SFA except:

- 1) to an institutional investor or to a relevant person (as defined in Section 305(5) of the SFA), or to any person arising from an offer referred to in Section 275(1A) or Section 305A(3)(i)(B) of the SFA;
- 2) where no consideration is or will be given for the transfer;
- 3) where the transfer is by operation of law;
- 4) as specified in Section 305A(5) of the SFA; or
- 5) as specified in Regulation 36 of the Securities and Futures (Offers of Investments) (Collective Investment Schemes) Regulations 2005 of Singapore.

Where the Securities are linked to CIS Reference Items and do provide for a right to physical delivery of the CIS Reference Items (whether such right is contingent on the fulfilment of any condition or not), and additionally, the Securities provide for a right or interest (including an option) in respect of units in a CIS Reference Item, the offer or invitation of the Securities and CIS Reference Items, which is the subject of this offering circular, does not relate to a collective investment scheme which is authorised under Section 286 of the SFA or recognised under Section 287 of the SFA. The program and the Issuers are not authorised or recognised by the MAS and the Securities and the CIS Reference Items are not allowed to be offered to the retail public. This offering circular and any other document or material issued in connection with the offer or sale is not a prospectus as defined in the SFA, and accordingly, statutory liability under the SFA in relation to the content of prospectuses does not apply, and you should consider carefully whether the investment is suitable for you.

This offering circular and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the Securities or CIS Reference Items may not be circulated or distributed, nor may the Securities or CIS Reference Items be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (i) to an institutional investor (as defined in the SFA) under Section 304 of the SFA, (ii) to a relevant person (as defined in Section 305(5) of the SFA) pursuant to Section 305(1) or any person pursuant to Section 305(2), and in accordance with the conditions specified in Section 305 of the SFA or, (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA.

Where notes or CIS Reference Items are subscribed for or purchased under Section 305 of the SFA by a relevant person which is:

- (a) a corporation (which is not an accredited investor (as defined in the SFA)) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited investor; or
- (b) a trust (where the trustee is not an accredited investor) whose sole purpose is to hold investments and each beneficiary of the trust is an individual who is an accredited investor,

securities (as defined in Section 2(1) of the SFA) of that corporation or the beneficiaries' rights and interest (howsoever described) in that trust shall not be transferred within six months after that corporation or that trust has acquired the notes or CIS Reference Items pursuant to an offer made under Section 305 of the SFA except:

- 1) to an institutional investor or to a relevant person (as defined in Section 305(5) of the SFA), or to any person arising from an offer referred to in Section 275(1A) or Section 305A(3)(i)(B) of the SFA;
- 2) where no consideration is or will be given for the transfer;
- 3) where the transfer is by operation of law;
- 4) as specified in Section 305A(5) of the SFA; or
- 5) as specified in Regulation 36 of the Securities and Futures (Offers of Investments) (Collective Investment Schemes) Regulations 2005 of Singapore.

A reference to any term as defined in the SFA or any provision in the SFA is a reference to that term as modified or amended from time to time including by such of its subsidiary legislation as may be applicable at the relevant time.

Slovakia

For selling restrictions in respect of Slovakia, please see "Prohibition of Sales to EEA Retail Investors" above, provided that:

- (a) at any time to any legal entity which is a qualified investor as defined in Section 120(6) of the Slovak Act No. 566/2001 Coll., on securities and investment services, as amended (the "Slovak Securities Act");
- (b) at any time to fewer than 150 natural or legal persons (other than qualified investors as defined in the Slovak Securities Act), subject to obtaining the prior consent of the relevant dealer or dealers nominated by The Goldman Sachs Group, Inc. for any such offer; or
- (c) at any time in any other circumstances falling within Section 120(3) of the Slovak Securities Act,

provided that no such offer of notes referred to in (a) to (c) above shall require The Goldman Sachs Group, Inc. or any dealer or offeror to publish a prospectus pursuant to Section 120 et seq. of the Slovak Securities Act, or supplement to the prospectus pursuant to Section 125c of the Slovak Securities Act.

South Africa

Each of Goldman Sachs International and each further dealer or offeror of the notes has (or will have) represented, warranted and agreed that it (i) will not offer notes for subscription, (ii) will not solicit any offers for subscription for or sale of the notes, and (iii) will itself not sell or offer the notes in South Africa in contravention of the South African Companies Act, 2008, the South African Banks Act, 1990, the South African Exchange Control Regulations, 1961, promulgated pursuant to the South African Currency and Exchanges Act, 1933 and/or any other applicable laws and regulations of South Africa in force from time to time.

Prior to the issue of any notes under the program, Goldman Sachs International and each further dealer or offeror of the notes who has (or will have) agreed to place those notes will be required to represent and agree that it will not make an “offer to the public” (as such expression is defined in the South African Companies Act, 2008, and which expression includes any section of the public) of notes (whether for subscription, purchase or sale) in South Africa.

This offering circular does not, nor is it intended to, constitute a prospectus prepared and registered under the South African Companies Act, 2008.

Offers not deemed to be offers to the public

Offers for subscription for, or sale of, notes are not deemed to be offers to the public if:

- (a) made only to certain investors contemplated in section 96(1)(a) of the South African Companies Act, 2008; or
- (b) the total contemplated acquisition cost of notes, for any single addressee acting as principal, is equal to or greater than ZAR 1,000,000, or such higher amount as may be promulgated by notice in the Government Gazette of South Africa pursuant to section 96(2)(a) of the South African Companies Act, 2008.

Information made available in this offering circular should not be considered as “advice” as defined in the South African Financial Advisory and Intermediary Services Act, 2002.

Spain

This offering circular has not been and it is not envisaged to be approved by, registered or filed with, or notified to the Spanish Securities Market Commission (*Comisión Nacional del Mercado de Valores*). It is not intended for the public offering or sale of the notes in Spain and does not constitute a prospectus (registration document or notes) for the public offering of the notes in Spain. Accordingly, no notes may be offered, sold, delivered, marketed nor may copies of this offering circular or any other document relating to the notes be distributed in Spain, and investors in the notes may not sell or offer such notes in Spain other than in compliance with the requirements set out by articles 35 of the Royal Legislative Decree 4/2015 of 23 October of the Securities Markets (*Real Decreto Legislativo 4/2015, de 23 de octubre, por el que se aprueba el texto refundido de la Ley del Mercado de Valores*), as amended and restated, (“Royal Legislative Decree 4/2015”) and 38 of Royal Decree 1310/2005, of 5 November, on admission to trading of the notes in official secondary markets, public offerings and prospectus (*Real Decreto 1310/2005, de 4 de noviembre, en materia de admisión a negociación de valores en mercados secundarios oficiales, de ofertas públicas de venta o suscripción y del folleto exigible a tales efectos*), as amended and restated (the “Royal Decree 1310/2005”) so that any sale or offering of the notes in Spain is not classified as a public offering of the notes in Spain.

The notes may not be listed, offered, sold or distributed in Spain, except in accordance with the requirements set out in Spanish laws transposing the Prospectus Directive, in particular Royal Legislative Decree 4/2015, and Royal Decree 1310/2005, of 4 November, or any other related regulations that may be in force from time to time, as further amended, supplemented or restated.

Sweden

For selling restrictions in respect of Sweden, please see “Prohibition of Sales to EEA Retail Investors” above.

The Netherlands

For selling restrictions in respect of The Netherlands, please see “Prohibition of Sales to EEA Retail Investors” above.

United Arab Emirates (UAE)

The offering of the notes has not been approved or licensed by the UAE Central Bank, the UAE Securities & Commodities Authority (the “SCA”), the Dubai Financial Services Authority (the “DFSA”) or any other relevant licensing authorities in the UAE, and accordingly does not constitute a public offer of securities in the UAE in accordance with the commercial companies law, Federal Law No. 2 of 2015 (as amended), SCA Resolution No. 9 R.M. of 2016 Concerning the Regulation of Mutual Funds (as amended) or SCA Resolution No. 3 R.M. of 2017 Concerning the Organization of Promotion and Introduction (together, the “SCA Resolutions”) or otherwise. Accordingly, the notes may not be offered to the public in the UAE (including the Dubai International Financial Centre).

This offering circular is strictly private and confidential and is being issued to a limited number of institutional and individual investors:

- (a) who fall within the exceptions to SCA Resolutions and/or who qualify as Qualified Investors as defined under the SCA Resolutions;
- (b) upon their request and confirmation that they understand that the Securities have not been approved or licensed by or registered with the UAE Central Bank, the SCA, the DFSA or any other relevant licensing authorities or governmental agencies in the UAE; and
- (c) must not be provided to any person other than the original recipient, and may not be reproduced or used for any other purpose.

United Kingdom

Goldman Sachs International has represented and agreed with The Goldman Sachs Group, Inc., and each further dealer or offeror of the notes appointed under the program will be required to represent and agree, that:

- (1) in relation to any notes that have a maturity of less than one year (a) it is a person whose ordinary activities involve it in acquiring, holding, managing or disposing of investments (as principal or as agent) for the purposes of its business and (b) it has not offered or sold and will not offer or sell any notes other than to persons whose ordinary activities involve them in acquiring, holding, managing or disposing of investments (as principal or as agent) for the purposes of their businesses or who it is reasonable to expect will acquire, hold, manage or dispose of investments (as principal or as agent) for the purposes of their businesses where the issue of the notes would otherwise constitute a contravention of Section 19 of the Financial Services and Markets Act 2000, (“FSMA”), by The Goldman Sachs Group, Inc.
- (2) it has only communicated or caused to be communicated and will only communicate or cause to be communicated an invitation or inducement to engage in investment activity (within the meaning of Section 21 of the FSMA) received by it in connection with the issue or sale of any notes in circumstances in which Section 21(1) of the FSMA does not apply to The Goldman Sachs Group, Inc.; and
- (3) it has complied and will comply with all applicable provisions of the FSMA and the Financial Conduct Authority Handbook with respect to anything done by it in relation to such notes in, from or otherwise involving the United Kingdom.

Uruguay

The notes have not been registered with the Central Bank of Uruguay and will not be offered or sold in Uruguay through public offerings.

Venezuela

The notes may not be offered to the public in Venezuela and may not be sold or offered in Venezuela in any manner that may be construed as a public offering, as determined under Venezuelan securities laws. The notes may be sold by means of a private offer through sales that do not constitute a public offering, as determined under Venezuelan securities laws.

Market-Making Resales by Affiliates

This offering circular may be used by Goldman Sachs International in connection with offers and sales of the notes in market-making transactions. In a market-making transaction, Goldman Sachs International may resell a note it acquires from other holders, after the original offering and sale of the note. Resales of this kind may occur in the open market or may be privately negotiated, at prevailing market prices at the time of resale or at related or negotiated prices. In these transactions, Goldman Sachs International may act as principal or agent, including as agent for the counterparty in a transaction in which Goldman Sachs International acts as principal, or as agent for both counterparties in a transaction in which Goldman Sachs International does not act as principal. Goldman Sachs International may receive compensation in the form of discounts and commissions, including from both counterparties in some cases. Other affiliates of The Goldman Sachs Group, Inc. may also engage in transactions of this kind and may use this offering circular for this purpose.

The aggregate initial offering price specified on the cover of this offering circular relates to the initial offering of the notes not yet issued as of the date of this offering circular. This amount does not include the notes to be sold in market-making transactions. The latter include notes to be issued after the date of this offering circular, as well as notes previously issued.

The Goldman Sachs Group, Inc. does not expect to receive any proceeds from market-making transactions. The Goldman Sachs Group, Inc. does not expect that Goldman Sachs International or any other affiliate that engages in these transactions will pay any proceeds from its market-making resales to The Goldman Sachs Group, Inc.

Information about the trade and settlement dates, as well as the purchase, for a market-making transaction will be provided to the purchaser in a separate confirmation of sale.

Unless The Goldman Sachs Group, Inc. or an agent informs you in your confirmation of sale that your note is being purchased in its original offering and sale, you may assume that you are purchasing your note in a market-making transaction.

Matters Relating to Initial Offering and Market-Making Resales

Each issuance of notes will be a new issuance, and there will be no established trading market for any note prior to its original issue date. We may not list any particular issuance on a securities exchange or quotation system. We have been advised by Goldman Sachs International that it intends to make a market in the notes, and any underwriters to whom we sell notes for public offering may also make a market in those notes. However, neither Goldman Sachs International nor any underwriter 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 any of the notes.

EMPLOYEE RETIREMENT INCOME SECURITY ACT

This section is only relevant to you if you are an insurance company or the fiduciary of a pension plan or an employee benefit plan (including a governmental plan, an IRA or a Keogh plan) proposing to invest in the notes.

ERISA and the Code, prohibit certain transactions (“prohibited transactions”) involving the assets of an employee benefit plan that is subject to the fiduciary responsibility provisions of ERISA or Section 4975 of the Code (including individual retirement accounts, Keogh plans, and other plans described in Section 4975(e)(1) of the Code) (each, a “Plan”) and certain persons who are “parties in interest” (within the meaning of ERISA) or “disqualified persons” (within the meaning of the Code) with respect to the Plan; governmental plans may be subject to similar prohibitions unless an exemption applies to the transaction. The assets of a Plan may include assets held in the general account of an insurance company that are deemed to be “plan assets” under ERISA or assets of certain investment vehicles in which the Plan invests.

The Goldman Sachs Group, Inc. and certain of its affiliates each may be considered a “party in interest” or a “disqualified person” with respect to many Plans, and, accordingly, prohibited transactions may arise if the notes are acquired or held by or on behalf of a Plan unless those notes are acquired and held pursuant to an available exemption. In general, available exemptions are: transactions effected on behalf of that Plan by a “qualified professional asset manager” (prohibited transaction exemption 84-14) or an “in-house asset manager” (prohibited transaction exemption 96-23), transactions involving insurance company general accounts (prohibited transaction exemption 95-60), transactions involving insurance company pooled separate accounts (prohibited transaction exemption 90-1), transactions involving bank collective investment funds (prohibited transaction exemption 91-38), and transactions with service providers under Section 408(b)(17) of ERISA and Section 4975(d)(20) of the Code where the Plan receives no less and pays no more than “adequate consideration” (within the meaning of Section 408(b)(17) of ERISA and Section 4975(f)(10) of the Code). The person making the decision on behalf of a Plan or a governmental plan shall be deemed, on behalf of itself and the Plan, by purchasing and holding the notes, or exercising any rights related thereto, to represent that (a) the Plan will receive no less and pay no more than “adequate consideration” (within the meaning of Section 408(b)(17) of ERISA and Section 4975(f)(10) of the Code) in connection with the purchase and holding of the notes, (b) none of the purchase, holding or disposition of the notes or the exercise of any rights related to the notes will result in a non-exempt prohibited transaction under ERISA or the Code (or, with respect to a governmental plan, under any similar applicable law or regulation), and (c) neither The Goldman Sachs Group, Inc. nor any of its affiliates is a “fiduciary” (within the meaning of Section 3(21) of ERISA (or any regulations thereunder) or, with respect to a governmental plan, under any similar applicable law or regulation) with respect to the purchaser or holder in connection with such person’s acquisition, disposition or holding of the notes, or as a result of any exercise by The Goldman Sachs Group, Inc. or any of its affiliates of any rights in connection with the notes, and neither The Goldman Sachs Group, Inc. nor any of its affiliates has provided investment advice in connection with such person’s acquisition, disposition or holding of the notes.

If you are an insurance company or the fiduciary of a pension plan or an employee benefit plan (including a governmental plan, an IRA or a Keogh plan), and propose to invest in the notes, you should consult your legal counsel.

LISTING AND GENERAL INFORMATION

Application has been made to the Luxembourg Stock Exchange for notes issued under the Series H euro medium-term notes program to be listed on the Official List of the Luxembourg Stock Exchange and admitted to trading on the Euro MTF. The Euro MTF is not a regulated market for the purposes of Directive 2004/39/EC. The relevant Pricing Supplement will specify whether the applicable notes are to

be listed or will be unlisted. The Goldman Sachs Group, Inc. is under no obligation to maintain the listing of any notes that are listed.

As long as any notes remain outstanding, copies of The Goldman Sachs Group, Inc. Restated Certificate of Incorporation, Amended and Restated By-laws, fiscal agency agreement dated June 11, 2010, as amended on November 28, 2012, February 4, 2013, March 7, 2014, March 7, 2016, June 20, 2016, December 14, 2016, August 31, 2017 and May 22, 2018 and the most recent Annual Report on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K may be obtained during normal business hours on any weekday (i.e., except Saturdays, Sundays and public holidays) at the specified office of, or upon written request to, the fiscal agent. In addition, a copy of each fiscal agency agreement and any amendments thereto will be available for inspection at those offices during those hours.

Issues of notes denominated in Swiss francs will be effected in compliance with the relevant regulations of the Swiss National Bank.

The issuance of the notes has been authorized by resolutions adopted by the Board of Directors of The Goldman Sachs Group, Inc. on October 28, 2011 and a Determination of the Treasurer, dated February 2, 2018.

Independent Registered Public Accounting Firm

Our consolidated statements of financial condition as of December 31, 2017 and December 31, 2018, the related consolidated statements of earnings, cash flows and changes in shareholders' equity for the fiscal years ended December 31, 2016, December 31, 2017 and December 31, 2018, and management's assessment of the effectiveness of internal control over financial reporting as of December 31, 2018 (which is included in management's report on internal control over financial reporting) are incorporated herein by reference to our Annual Report on Form 10-K for the fiscal year ended December 31, 2018 and have been audited by PricewaterhouseCoopers LLP, as stated in their report incorporated by reference herein. No other information in this offering circular has been audited by PricewaterhouseCoopers LLP.

PricewaterhouseCoopers LLP, is an independent registered public accounting firm under the rules of the Public Company Accounting Oversight Board, of 300 Madison Avenue, New York, New York 10017, U.S.A., and a member of the American Institute of Certified Public Accountants.

We are registered in the State of Delaware in the United States. The Goldman Sachs Group, Inc. is organized and exists under the Delaware General Corporation Law. We filed our original certificate of incorporation with the Secretary of State of the State of Delaware on July 21, 1998. Pursuant to the laws of the State of Delaware, the duration of our company is unlimited. Our registration number is 2923466. Pursuant to the paragraph headed "Third" of the second clause our Restated Certificate of Incorporation, the purpose of our company is to engage in any lawful act or activity for which corporations may be organized under the Delaware General Corporation Law.

The business address of the directors of The Goldman Sachs Group, Inc. is the address of our headquarters.

General information about our capital

The most recent information about our capital, including, for example, descriptions of the amount and classes of our issued capital and of any convertible or similar debt securities, as well as information about our largest shareholders, can be found in the following sections of the annual and quarterly reports incorporated herein by reference: (i) Part II – Item 8 – Consolidated Statements of Changes in Shareholders' Equity of each of our Forms 10-K; (ii) Part II – Item 8 – Notes to Consolidated Financial Statements – Shareholders' Equity of each of our Forms 10-K; (iii) Part I – Item 1 – Condensed Consolidated Statements of Changes in Shareholders' Equity of each of our Forms 10-Q; and (iv) Part I –

Item 1 – Notes to Condensed Consolidated Financial Statements – Shareholders' Equity of each our Forms 10-Q.

Selected financial information

Our most recent selected annual and interim financial information can be found in the following sections of the annual and current reports incorporated herein by reference: (i) Part II – Item 8 – Supplemental Financial Information – Selected Financial Data of each of our Forms 10-K; and (ii) Item 9.01 – Financial Statements and Exhibits – Consolidated Statements of Earnings (Unaudited) of each relevant Form 8-K.

THE PROPOSED FINANCIAL TRANSACTIONS TAX (“FTT”)

On 14 February 2013, the European Commission published a proposal (the “Commission's Proposal”) for a Directive for a common FTT in Belgium, Germany, Estonia, Greece, Spain, France, Italy, Austria, Portugal, Slovenia and Slovakia (the participating Member States”).

The Commission's Proposal has very broad scope and could, if introduced, apply to certain dealings in the notes (including secondary market transactions) in certain circumstances. Primary market transactions referred to in Article 5(c) of Regulation (EC) No 1287/2006, such as the issuance and subscription of notes, are expected to be exempt.

Under the Commission's Proposal the FTT could apply in certain circumstances to persons both within and outside of the participating Member States. Generally, it would apply to certain dealings in the notes where at least one party is a financial institution, and at least one party is established in a participating Member State. A financial institution may be, or be deemed to be, “established” in a participating Member State in a broad range of circumstances, including (a) by transacting with a person established in a participating Member State or (b) where the financial instrument which is subject to the dealings is issued in a participating Member State.

The Commission's proposal remains subject to negotiation between the participating Member States and the scope and legality of any such tax is uncertain. Additional EU Member States may decide to participate and/or certain of the participating Member States may decide to withdraw. It was announced in December 2015 that Estonia had withdrawn.

The Council of the European Union discussed the progress of work on these open issues on 6 December 2016. However, the timing and scope of any next steps remains unclear.

Prospective holders of notes are advised to seek their own professional advice in relation to the FTT.

[PROHIBITION OF SALES TO EEA RETAIL INVESTORS - The notes are not intended to be offered, sold or otherwise made available to and should not be offered, sold or otherwise made available to any retail investor in the European Economic Area (“EEA”). For these purposes, a retail investor means a person who is one (or more) of: (i) a retail client as defined in point (11) of Article 4(1) of Directive 2014/65/EU (as amended, “MiFID II”); (ii) a customer within the meaning of Directive EU 2016/97 (as amended, the “Insurance Distribution Directive”), where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or (iii) not a qualified investor as defined in Directive 2003/71/EC (as amended or superseded, the “Prospectus Directive”). Consequently no key information document required by Regulation (EU) No 1286/2014 (as amended, the “PRIIPs Regulation”) for offering or selling the notes or otherwise making them available to retail investors in the EEA has been prepared and therefore offering or selling the notes or otherwise making them available to any retail investor in the EEA may be unlawful under the PRIIPs Regulation. Notwithstanding the foregoing, if the Issuer subsequently prepares and publishes a key information document under the PRIIPs Regulation in respect of the notes, then the prohibition on the offering, sale or otherwise making available of the notes to retail investors as described above shall no longer apply.]

Pricing Supplement No. • to the offering circular dated June 4, 2019 [, as amended]



The Goldman Sachs Group, Inc.

Euro Medium-Term Notes, Series H

*[Title of [Fixed rate] [Floating rate] [Fixed/Floating rate] [Zero coupon] [Discount] notes]
The terms of the notes being offered are as follows:*

Issuer: The Goldman Sachs Group, Inc.

Face Amount:

Denomination:

Minimum Investment:

Type of Note: [Fixed rate] [Floating rate] [Fixed/Floating rate] [Zero coupon] [Discount] note

Specified Currency:

Trade Date:

Original Issue Date (Settlement Date):

ISIN Code:

Common Code:

Valoren Number:

Stated Maturity Date: [If applicable, provisions for the extension of maturity automatically or at the holder's option]

Original Issue Price: %

[Original Issue Discount (OID): If applicable, OID as a percentage] %
[If issued at 100%: Not applicable]

Net Proceeds to Issuer: %

Amount Payable at Maturity: [100% of the Face Amount outstanding on the Stated Maturity Date]

Yield to Maturity:

[Accreted Value: For zero coupon and discount notes: As of any date prior to the stated maturity date, an amount equal to the sum of (A) the original issue price of your note and (B) the portion of the excess of the Face Amount over the Original Issue Price which shall have been accreted from the issue price on a daily basis (and compounded annually on • of each year, up to and including the Stated Maturity Date, at the rate of •% per annum from the Original Issue Date, computed on the basis of a 360-day year consisting of twelve 30-day

calendar months; and (2) as of any date on or after the Stated Maturity Date, the Face Amount]

Interest Rate: [For fixed rate notes: •% per annum] [For floating rate notes: A rate per annum equal to the Base Rate [plus the Spread] [multiplied by the Spread Multiplier, if any]] [Modify as appropriate.] [For notes that do not bear interest: Not applicable]

[Base Rate(s): For floating rate notes, the base rate or rates]

[Initial Base Rate: For floating rate notes, if applicable: The [Index maturity] [Index currency] [Base rate] on [First interest determination date]

[Index Maturity: For floating rate notes, the index maturity]

[Index Currency: For floating rate notes, the index currency]

[Spread: For floating rate notes, the spread]

[Spread Multiplier: For floating rate notes, the spread multiplier]

[Minimum Rate: For floating rate notes, the minimum rate]

[Maximum Rate: For floating rate notes, the maximum rate]

[Day Count Fraction: For floating and fixed rate notes, the day count fraction]

Calculation Basis: Interest and redemption payments will be calculated on a [per denomination] [notional] basis

[Interest Commencement Date: For fixed and floating rate notes, the interest commencement date]

[Interest Period: For fixed and floating rate notes: Each period from and including an [originally scheduled] Interest Payment Date (or the Original Issue Date, in the case of the initial Interest Period) to but excluding the next succeeding [originally scheduled] Interest Payment Date (or the [originally scheduled] Stated Maturity Date, in the case of the final Interest Period)]

[Interest Determination Dates: For floating rate notes: For each Interest Period, the Interest Determination Date shall be the [first]

[second] [Euro] [London] Business Day preceding the first day of such Interest Period *[Modify as appropriate]*

Interest Reset Dates: *For floating rate notes:* For each Interest Period, the Interest Reset Date shall be the first day of such Interest Period *[Modify as appropriate]*

Interest Payment Dates: *For fixed and floating rate notes:* •[•, and •] of each year[, beginning with • and ending with •], subject to the Business Day Convention

Regular Record Dates: The Regular Record Date for each interest payment date will be the date [•]*[for registered notes under NSS: 1] Business Days prior to such Interest Payment Date [•]*, as it may be adjusted in accordance with the Business Day Convention

Additional Redemption Rights at the Option of the Issuer: *[For notes subject to redemption at the option of the issuer, a plain English description of the redemption feature] [For all other notes: None]*

[For notes subject to redemption at the option of the issuer, if "Make-Whole Redemption Amount" is specified as the redemption amount, include the text below:

Redemption Margin: •

Reference Bond:•

Quotation Time: •

Quotation Jurisdiction: •

Par Call Redemption Date: [Not Applicable] *[Specify]*

Make-Whole Day Count Fraction: [1/1 (ISDA)] [Actual/Actual (ISDA)] [Actual/Actual (ICMA)] [Actual/Actual (Bond)] [Actual/Actual (Euro)] [Actual/365 (Fixed)] [Actual/360 (ISDA)] [Actual/360 (ICMA)] [30/360 (ISDA)]

Make-Whole Calculation Basis: The Make-Whole Redemption Amount shall be calculated by discounting to the applicable redemption commencement date on [a/an][annual][semi-annual][quarterly][other] basis]

Repurchase at the Holder's Option: *[For notes subject to redemption at the option of the issuer, a plain English description of the repurchase feature; otherwise: Not applicable]*

[Non-Scheduled Early Repayment Amount: •]

Business Days: The relevant Business Days are *[Relevant business days]*; see "Description of the Program — Features Common to All Notes — Business Days" in the offering circular

Business Day Convention: *[For interest-bearing notes: [Following [adjusted] [unadjusted]] [Modified Following [adjusted] [unadjusted]]]; see "Description of the Program — Features Common to All Notes — Business Day Conventions" in the offering circular] [For notes that do not bear interest: Not applicable]*

Final BDC Procedure: [Not Applicable] [Applicable]

Form of Notes: Registered global notes only, registered in the name of a nominee for a *[for notes not issued under NSS: common depository][for notes issued under NSS: common safekeeper]* for Euroclear and Clearstream, Luxembourg; see "Description of the Program — Form, Exchange, Registration and Transfer" in the offering circular]

[Intended to be held in a manner which would allow Eurosystem eligibility: [Yes. Note that the designation "yes" simply means that the

notes are intended upon issue to be deposited with one of the ICSDs as common safekeeper[, and registered in the name of a nominee of one of the ICSDs acting as common safekeeper] *[include this text for Registered Notes which are to be held under the NSS]* and does not necessarily mean that the notes will be recognised as eligible collateral for Eurosystem monetary policy and intra-day credit operations by the Eurosystem either upon issue or at any or all times during their life. Such recognition will depend upon the ECB being satisfied that Eurosystem eligibility criteria have been met. [As of the Original Issue Date, such criteria were not met].]

[No. Whilst the designation is specified as "no" at the date of this Pricing Supplement, should the Eurosystem eligibility criteria be amended in the future such that the notes are capable of meeting them the notes may then be deposited with one of the ICSDs as common safekeeper [, and registered in the name of a nominee of one of the ICSDs acting as common safekeeper] [include this text for Registered Notes]. Note that this does not necessarily mean that the notes will then be recognised as eligible collateral for Eurosystem monetary policy and intra-day credit operations by the Eurosystem at any time during their life. Such recognition will depend upon the ECB being satisfied that Eurosystem eligibility criteria have been met.]

Clearing: [Euroclear Bank SA/NV and Clearstream Banking, *société anonyme*] [other applicable clearing system]

Gross-up and Call in the Case of Tax Law Changes: *[For notes subject to gross-up and call in the case of tax law changes: Applicable; see "Description of the Program — Payment of Additional Amounts" and "— Redemption and Repayment — Redemption Upon Obligation to Pay Additional Amounts" in the offering circular] [For all other notes: The Issuer will not gross up any payments due on the notes and will not compensate the Holder for any amount that may be withheld or due because of tax law changes with regard to withholding tax or certain reporting requirements nor therefore will the right of the Issuer to redeem the notes arising from the payment of additional amounts be applicable; see "Description of the Program — Payment of Additional Amounts" and "— Redemption and Repayment" in the offering circular]*

Calculation Agent: Goldman Sachs International

Underwriter: [Name, address, description] [None]

Guarantor: None

Listing: [Application has been made to the Luxembourg Stock Exchange for the notes to be listed on the Official List of the Luxembourg Stock Exchange and admitted to trading on the Euro MTF. See "Listing and General Information" in the offering circular]. *[Other] [For all other notes: None: no application has been made or will be made to list the notes for trading on a regulated market.]*

[Section 871(m): [The Issuer has determined that the notes will not be subject to withholding under Section 871(m) of the U.S. Internal Revenue Code] *[Other]*

Prohibition of Sales to EEA Retail Investors: [Applicable/Not Applicable] *[If the notes clearly do not constitute "packaged" products, "Not Applicable" should be specified. If the notes may constitute "packaged" products and no KID will be prepared, "Applicable" should be specified.]*

Your investment in your note involves risks. In particular, assuming no changes in market conditions or our creditworthiness and other relevant factors, the value of your note on the date of this Pricing Supplement (as determined by reference to pricing models used by Goldman Sachs and taking into account our credit spreads) may be significantly less than the original issue price. We encourage you to read "Risk Factors" on page 11 of the offering circular, so that you may better understand those risks.

Any offered notes sold by Goldman Sachs International to dealers may be resold by such dealers in negotiated transactions or otherwise at varying prices determined at the time of sale, which prices may be different from the original issue price. [The original issue price reflects a discount representing a fee payable to •.] [Goldman Sachs International may [also] pay a commission to • in connection with the sale of the notes. See "Additional Information About the Plan of Distribution" below]

This Pricing Supplement should be read in conjunction with the offering circular, including [all amendments to the offering circular and] all documents incorporated by reference therein, and you should base your investment decision on a consideration of this Pricing Supplement and the offering circular, including [all amendments thereto and all] documents incorporated by reference therein, as a whole.

The notes have not been registered under the U.S. Securities Act of 1933, as amended (the “Securities Act”) and may not be offered or sold in the United States or to U.S. persons (as those terms are defined in Regulation S under the Securities Act) unless an exemption from the registration requirements of the Securities Act is available. See “Notice to Investors” below. This Pricing Supplement is not for use in, and may not be delivered to or inside, the United States.

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 may use this Pricing Supplement in the initial sale of the notes. In addition, Goldman Sachs International or other affiliates of The Goldman Sachs Group, Inc. may use this Pricing Supplement in a market-making transaction in a note after its initial sale. ***Unless Goldman Sachs International or another affiliate of The Goldman Sachs Group, Inc. or their respective agents inform the purchaser otherwise in the confirmation of sale, this Pricing Supplement is being used in a market-making transaction.***

Goldman Sachs International

Pricing Supplement, dated •

NOTICE TO INVESTORS

The notes have not been registered under the Securities Act and may not be offered or sold in the United States or to U.S. persons (as those terms are defined in Regulation S under the Securities Act) unless an exemption from the registration requirements of the Securities Act is available. In particular, hedging transactions involving the notes may not be conducted other than in compliance with the Securities Act. Each purchaser of a note is deemed to agree to comply with the foregoing.

Except in certain limited circumstances, owners of beneficial interests in the notes will not be entitled to have the notes registered in their names, will not be entitled to receive physical delivery of the notes in definitive form except in limited circumstances and will not be considered the owners or holders of the notes under the fiscal agency agreement governing the notes.

Unless the context otherwise requires, references to “The Goldman Sachs Group, Inc.”, “we”, “our” and “us” mean only The Goldman Sachs Group, Inc. and do not include its consolidated subsidiaries. References to “Goldman Sachs” mean The Goldman Sachs Group, Inc. together with its consolidated subsidiaries, and the “Goldman Sachs Group” refers to The Goldman Sachs Group, Inc. and its consolidated subsidiaries. Also, references to the “offering circular” mean the offering circular, dated June 4, 2019, of The Goldman Sachs Group, Inc. [, as amended.]

In this Pricing Supplement, references to “holder” or “holders” mean only those who have notes registered in their own names and not indirect owners who own beneficial interests in notes of which others are the registered holders. The latter include those who own beneficial interests in notes issued in global — i.e., book-entry — form through Euroclear Bank SA/NV, Clearstream Banking, *société anonyme* or another depository (“global note”). Owners of beneficial interests in notes issued in global form should read the section entitled “Description of the Program — Form, Exchange, Registration and Transfer” in the offering circular. Also, references in this Pricing Supplement to “you” mean those who invest in the notes, whether they are the actual registered holder of the global notes or only owners of beneficial interests in global notes. References to “your note” mean the notes in which you hold a direct or indirect interest.

Responsibility Statement

The Goldman Sachs Group, Inc. accepts responsibility for the information contained in this Pricing Supplement. To the best of the knowledge and belief of The Goldman Sachs Group, Inc. (which has taken all reasonable care to ensure that such is the case), the information contained in this Pricing Supplement is in accordance with the facts and contains no omission likely to affect the import of such information. Where information contained in this Pricing Supplement has been sourced from a third party, this information has been accurately reproduced and so far as The Goldman Sachs Group, Inc. is aware and is able to ascertain from information published by that third party, no facts have been omitted which would render the reproduced information inaccurate or misleading.

We have not authorized anyone to provide any information or to make any representations other than those contained or incorporated by reference in this offering circular. Neither this Pricing Supplement nor the offering circular constitutes an offer to sell or the solicitation of an

offer to buy any securities in any jurisdiction where, or to any person to whom, it is unlawful to make such offer or solicitation. Neither the delivery of this Pricing Supplement or the offering circular, nor any sale made hereunder or thereunder, shall, under any circumstances, create any implication that there has been no change in the affairs of The Goldman Sachs Group, Inc. since the date hereof or thereof or that the information contained herein or therein is correct as of any time subsequent to its date.

Any person making the decision to acquire the notes shall be deemed, on behalf of itself and the holder, by acquiring and holding the notes or exercising any rights related thereto, to represent that:

(i) the funds that the holder is using to acquire the notes are not the assets of an employee benefit plan subject to Title I of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”), a plan described in and subject to Section 4975 of the Internal Revenue Code of 1986, as amended (the “Code”), a governmental plan subject to any federal, state or local law that is similar to the provisions of Section 406 of ERISA or Section 4975 of the Code, or an entity whose underlying assets include “plan assets” by reason of Department of Labor regulation section 2510.3-101, as modified by Section 3(42) of ERISA, or otherwise; or

(ii)(A) the holder will receive no less and pay no more than “adequate consideration” (within the meaning of Section 408(B)(17) of ERISA and Section 4975(f)(10) of the Code) in connection with the purchase and holding of the notes; (B) none of the purchase, holding or disposition of the notes or the exercise of any rights related to the notes will result in a non-exempt prohibited transaction under ERISA or the Code (or with respect to a governmental plan, under any similar applicable law or regulation); and (C) neither The Goldman Sachs Group, Inc. nor any of its affiliates is a “fiduciary” (within the meaning of Section 3(21) of ERISA (or any regulations thereunder) or, with respect to a governmental plan, under any similar applicable law or regulation) with respect to the purchaser or holder in connection with such person’s acquisition, disposition or holding of the notes, or as a result of any exercise by The Goldman Sachs Group, Inc. or any of its affiliates of any rights in connection with the notes, and neither The Goldman Sachs Group, Inc. nor any of its affiliates provided investment advice in connection with such holder’s acquisition, disposition or holding of the notes.

[ADDITIONAL INFORMATION ABOUT THE PLAN OF DISTRIBUTION]

[For non-syndicated offerings: We have agreed to sell to [Goldman Sachs International], and [Goldman Sachs International] has agreed to buy from us, the aggregate face amount of the notes specified on the front cover of this Pricing Supplement. [Goldman Sachs International] intends to resell the notes at the original issue price applicable to the notes to be resold in offshore transactions in reliance upon Regulation S under the Securities Act. Any notes sold by [Goldman Sachs International] to dealers may be resold by such dealers in negotiated transactions or otherwise, at varying prices determined at the time of sale, which prices may be different from the original issue price. In the future, [Goldman Sachs International] and our other affiliates may repurchase and resell the notes in market-making transactions, with resales being made at prices related to prevailing market prices at the time of resale or at negotiated prices.

The notes have not been registered under the Securities Act and may not be offered or sold in the United States or to U.S. persons (as those terms are defined in Regulation S under the Securities Act) unless an exemption from the registration requirements of the Securities Act is available. In particular, hedging transactions involving the notes may not be conducted other than in compliance with the Securities Act. Each purchaser of a note is deemed to agree to comply with the foregoing.

The address of Goldman Sachs International is Peterborough Court, 133 Fleet Street, London EC4A 2BB, United Kingdom.

[The original issue price reflects a discount of •% representing a fee payable to •.] [Goldman Sachs International may [also] pay an [additional] commission of •% of the principal amount of the notes to • in connection with the sale of the notes.]]

[For syndicated offerings: Subject to the Terms Agreement, dated •, between us on the one hand and the Purchasing Agents named below (collectively, the “Purchasing Agents”) on the other, which incorporates certain provisions of the Distribution Agreement, dated [•] between us and Goldman Sachs International, as amended or restated, if applicable, we have agreed to sell, and each of the Purchasing

Agents has agreed to purchase, severally but not jointly, at a price of •% of the principal amount of the notes, the principal amount of the notes set forth opposite their names in the table below:

Purchasing Agent	Principal amount of notes
Goldman Sachs International	•
•	•
•	•

Each of the Purchasing Agents will receive underwriting discounts and commissions in the amount of •% of the principal amount of the notes underwritten by it. [A selling concession of •% will be paid in respect of the aggregate principal amount of the notes sold by a Purchasing Agent.] The Purchasing Agents may pay a distribution fee for the placement of the notes.

[Include address of lead Purchasing Agent(s)]

The Purchasing Agents propose to offer the notes at the original issue price set forth on the cover page of this Pricing Supplement in offshore transactions in reliance upon Regulation S under the Securities Act. After the notes have been released to investors, the offering price and other selling terms may from time to time be varied by the Purchasing Agents.

The notes are new issue securities with no established trading market. Goldman Sachs International or other affiliates of us, and the other Purchasing Agents, may repurchase and resell the notes in market-making transactions, with resales being made at prices related to prevailing market prices at the time of resale or at negotiated prices. None of them, however, is obligated to do so and any of them may discontinue market-making at any time without notice.

Each of the Purchasing Agents has agreed with us that:

- [Applicable selling restrictions.]]

For more information about the plan of distribution and possible market-making activities, see “Plan of Distribution” in the offering circular.



[PROHIBITION OF SALES TO EEA RETAIL INVESTORS - The notes are not intended to be offered, sold or otherwise made available to and should not be offered, sold or otherwise made available to any retail investor in the European Economic Area (“EEA”). For these purposes, a retail investor means a person who is one (or more) of: (i) a retail client as defined in point (11) of Article 4(1) of Directive 2014/65/EU (as amended, “MiFID II”); (ii) a customer within the meaning of Directive EU 2016/97 (as amended, the “Insurance Distribution Directive”), where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or (iii) not a qualified investor as defined in Directive 2003/71/EC (as amended or superseded, the “Prospectus Directive”). Consequently no key information document required by Regulation (EU) No 1286/2014 (as amended, the “PRIIPs Regulation”) for offering or selling the notes or otherwise making them available to retail investors in the EEA has been prepared and therefore offering or selling the notes or otherwise making them available to any retail investor in the EEA may be unlawful under the PRIIPs Regulation. Notwithstanding the foregoing, if the Issuer subsequently prepares and publishes a key information document under the PRIIPs Regulation in respect of the notes, then the prohibition on the offering, sale or otherwise making available of the notes to retail investors as described above shall no longer apply.]

Pricing Supplement No. ● to the offering circular dated June 4, 2019 [,
as amended]



The Goldman Sachs Group, Inc.

Euro Medium-Term Notes, Series H

[Title of Indexed Notes]

[A brief description of the notes.]

Your investment in your note involves risks. We encourage you to read “Risk Factors” on page 11 of the offering circular [and “Additional Investment Considerations Specific to Your Note” on page S-●], so that you may better understand those risks.

Any offered notes sold by Goldman Sachs International to dealers may be resold by such dealers in negotiated transactions or otherwise at varying prices determined at the time of sale, which prices may be different from the original issue price. [The original issue price reflects a discount representing a fee payable to ●.] [Goldman Sachs International may [also] pay a commission to ● in connection with the sale of the notes. See “Additional Information About the Plan of Distribution” below]

This Pricing Supplement should be read in conjunction with the offering circular, [including all amendment to the offering circular and] all documents incorporated by reference therein, and you should base your investment decision on a consideration of this Pricing Supplement and the offering circular, [including all amendments to the offering circular and] all documents incorporated by reference therein, as a whole

The notes have not been registered under the U.S. Securities Act of 1933, as amended (the “Securities Act”) and may not be offered or sold in the United States or to U.S. persons (as those terms are defined in Regulation S under the Securities Act) unless an exemption from the registration requirements of the Securities Act is available. See “Notice to Investors” below. This Pricing Supplement is not for use in, and may not be delivered to or inside, the United States.

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 may use this Pricing Supplement in the initial sale of the notes. In addition, Goldman Sachs International or other affiliates of The Goldman Sachs Group, Inc. may use this Pricing Supplement in a market-making transaction in a note after its initial sale. **Unless Goldman Sachs International or another affiliate of The Goldman Sachs Group, Inc. or their respective**

agents inform the purchaser otherwise in the confirmation of sale, this Pricing Supplement is being used in a market-making transaction.

Goldman Sachs International

Pricing Supplement, dated •
[Add short-form index disclaimers.]

NOTICE TO INVESTORS

The notes have not been registered under the Securities Act and may not be offered or sold in the United States or to U.S. persons (as those terms are defined in Regulation S under the Securities Act) unless an exemption from the registration requirements of the Securities Act is available. In particular, hedging transactions involving the notes may not be conducted other than in compliance with the Securities Act. Each purchaser of a note is deemed to agree to comply with the foregoing.

Except in certain limited circumstances, owners of beneficial interests in the notes will not be entitled to have the notes registered in their names, will not be entitled to receive physical delivery of the notes in definitive form except in limited circumstances and will not be considered the owners or holders of the notes under the fiscal agency agreement governing the notes.

Unless the context otherwise requires, references to “The Goldman Sachs Group, Inc.”, “we”, “our” and “us” mean only The Goldman Sachs Group, Inc. and do not include its consolidated subsidiaries. References to “Goldman Sachs” mean The Goldman Sachs Group, Inc. together with its consolidated subsidiaries, and the “Goldman Sachs Group” refers to The Goldman Sachs Group, Inc. and its consolidated subsidiaries. Also, references to the “offering circular” mean the offering circular, dated June 4, 2019 of The Goldman Sachs Group, Inc.[, as amended.]

In this Pricing Supplement, references to “holder” or “holders” mean only those who have notes registered in their own names and not indirect owners who own beneficial interests in notes of which others are the registered holders. The latter include those who own beneficial interests in notes issued in global — i.e., book-entry — form through Euroclear Bank SA/NV, Clearstream Banking, *société anonyme* or another depository (“global note”). Owners of beneficial interests in notes issued in global form should read the section entitled “Description of the Program — Form, Exchange, Registration and Transfer” in the offering circular. Also, references in this Pricing Supplement to “you” mean those who invest in the notes, whether they are the actual registered holder of the global notes or only owners of beneficial interests in global notes. References to “your note” mean the notes in which you hold a direct or indirect interest.

Responsibility Statement

The Goldman Sachs Group, Inc. accepts responsibility for the information contained in this Pricing Supplement. To the best of the knowledge and belief of The Goldman Sachs Group, Inc. (which has taken all reasonable care to ensure that such is the case), the information contained in this Pricing Supplement is in accordance with the facts and contains no omission likely to affect the import of such information. Where information contained in this Pricing Supplement has been sourced from a third party, this information has been accurately reproduced and so far as The Goldman Sachs Group, Inc. is aware and is able to ascertain from information published by that third party, no facts have been omitted which would render the reproduced information inaccurate or misleading.

We have not authorized anyone to provide any information or to make any representations other than those contained or incorporated by reference in this offering circular. Neither this Pricing Supplement nor the offering circular constitutes an offer to sell or the solicitation of an offer to buy any securities in any jurisdiction where, or to any person to whom, it is unlawful to

make such offer or solicitation. Neither the delivery of this Pricing Supplement or the offering circular, nor any sale made hereunder or thereunder, shall, under any circumstances, create any implication that there has been no change in the affairs of The Goldman Sachs Group, Inc. since the date hereof or thereof or that the information contained herein or therein is correct as of any time subsequent to its date.

Neither the U.S. Securities and Exchange Commission (the “SEC”) nor the regulatory authority of any other jurisdiction has passed upon the accuracy or adequacy of this Pricing Supplement or the offering circular.

Any person making the decision to acquire the notes shall be deemed, on behalf of itself and the holder, by acquiring and holding the notes or exercising any rights related thereto, to represent that:

(i) the funds that the holder is using to acquire the notes are not the assets of an employee benefit plan subject to Title I of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”), a plan described in and subject to Section 4975 of the Internal Revenue Code of 1986, as amended (the “Code”), a governmental plan subject to any federal, state or local law that is similar to the provisions of Section 406 of ERISA or Section 4975 of the Code, or an entity whose underlying assets include “plan assets” by reason of Department of Labor regulation section 2510.3-101, as modified by Section 3(42) of ERISA, or otherwise; or

(ii)(A) the holder will receive no less and pay no more than “adequate consideration” (within the meaning of Section 408(B)(17) of ERISA and Section 4975(f)(10) of the Code) in connection with the purchase and holding of the notes; (B) none of the purchase, holding or disposition of the notes or the exercise of any rights related to the notes will result in a non-exempt prohibited transaction under ERISA or the Code (or with respect to a governmental plan, under any similar applicable law or regulation); and (C) neither The Goldman Sachs Group, Inc. nor any of its affiliates is a “fiduciary” (within the meaning of Section 3(21) of ERISA (or any regulations thereunder) or, with respect to a governmental plan, under any similar applicable law or regulation) with respect to the purchaser or holder in connection with such person’s acquisition, disposition or holding of the notes, or as a result of any exercise by The Goldman Sachs Group, Inc. or any of its affiliates of any rights in connection with the notes, and neither The Goldman Sachs Group, Inc. nor any of its affiliates provided investment advice in connection with such holder’s acquisition, disposition or holding of the notes.

KEY TERMS

The terms of the notes being offered are as follows:

Issuer: The Goldman Sachs Group, Inc.

Face Amount:

Denomination:

[Minimum Investment:]

Type of Note: Indexed note

Specified Currency:

Trade Date:

Original Issue Date (Settlement Date):

ISIN Code:

Common Code:

Valoren Number:

Stated Maturity Date:

Original Issue Price:

Net Proceeds to Issuer:

Amount Payable at Maturity: [A plain English description of the payment amount formula]

Yield to Maturity:

Interest Rate:

[Day Count Fraction: *The day count fraction*]

Calculation Basis: Interest and redemption payments will be calculated on a [per denomination] [notional] basis

[Interest Period: Each period from and including an Interest Payment Date (or the Original Issue Date, in the case of the initial Interest Period) to but excluding the next succeeding Interest Payment Date (or the Stated Maturity Date, in the case of the final Interest Period)]

[Interest Payment Dates: ●[●, and ●] of each year[, beginning with ● and ending with ●], subject to the Business Day Convention

The Index or Indices: [For each index: [Index] ([Index abbreviation (use only abbreviation, omit "index"))]; where appropriate, the caption may be replaced by "Index Stock"]

Index Sponsor(s): [The sponsor of each index; where appropriate, the caption may be replaced by "Index Stock Issuer"]

[Principal Stock Exchange: For notes linked to a stock, the stock exchange on which the stock is listed]

[Supplemental Payment Amount: A plain English description of the supplemental payment amount formula]

[Total Index Return: A plain English description of the total index return; where appropriate, the caption may be replaced by "Total [Adjusted] Index Return"]

[Participation Rate: *The participation rate as a percentage*]

[Index Return: A plain English description of the index return; where appropriate, the caption may be replaced by "[Adjusted] [Index] Return"]

[Initial Index Level: A plain English description of the initial index level formula, including, where appropriate, a quantification of the initial index level for each index; where appropriate, the caption may be replaced by "Initial [Stock] Level"]

[Final Index Level: A plain English description of the final index level formula]

[Basket Return: *The basket return formula*]

[Basket: *List each index contained in the basket:*]

[Initial Basket Level: A plain English description of the initial basket level formula, including, where appropriate, a quantification of the initial basket level for each index basket]

[Final Basket Level: A plain English description of the final basket level formula]

[Exchange Rate: For notes exchangeable into stock, the applicable exchange rate]

[Reference Price(s): With respect to each index[, the official closing level of [such] [the] Index on each relevant date, as determined and published by the Index Sponsor on [Reuters][Bloomberg] page (or any successor or replacement page)]

[Strike Fixing Date(s): *The strike date or dates*]

Observation Date(s): [The observation date or dates;], [provided that, with respect to each ●, each Observation Date may be postponed in the event the relevant date is not an Exchange Business Day with respect to such ● or on the relevant date a Market Disruption Event occurs or is continuing with respect to such ● and provided further that no observation date will be extended by more than eight business days; see "Description of the Program — Indexed Notes — ●" in the offering circular] [for notes linked to baskets of indices, specify whether common exchange business days but individual market disruption events apply or whether common exchange business days and common market disruption events apply]

Regular Record Dates: The Regular Record Date for each Interest Payment Date will be the date [●][for registered notes under NSS: 1] Business Days prior to such Interest Payment Date [●], as it may be adjusted in accordance with the Business Day Convention

Additional Redemption Rights at the Option of the Issuer: [For notes subject to redemption at the option of the issuer, a plain English description of the redemption feature] [For all other notes: None]

Repurchase at the Holder's Option: [For notes subject to redemption at the option of the issuer, a plain English description of the repurchase feature; otherwise: Not applicable]

[Non-Scheduled Early Repayment Amount: ●]

Business Days: The relevant Business Days are [Relevant business days]; see "Description of the Program — Features Common to All Notes — Business Days" in the offering circular

Business Day Convention: [[Following [adjusted] [unadjusted]] [Modified Following [adjusted] [unadjusted]]; see "Description of the Program — Features Common to All Notes — Business Day Conventions" in the offering circular] [Not applicable]

Final BDC Procedure: [Not Applicable] [Applicable]

Form of Notes: Registered global notes only, registered in the name of a nominee for a [for notes not issued under NSS: common depository][for notes issued under NSS: common safekeeper] for Euroclear and Clearstream, Luxembourg; see "Description of the Program — Form, Exchange, Registration and Transfer" in the offering circular]

[Intended to be held in a manner which would allow Eurosystem eligibility: [Yes. Note that the designation “yes” simply means that the notes are intended upon issue to be deposited with one of the ICSDs as common safekeeper[, and registered in the name of a nominee of one of the ICSDs acting as common safekeeper] *[include this text for Registered Notes which are to be held under the NSS]* and does not necessarily mean that the notes will be recognised as eligible collateral for Eurosystem monetary policy and intra-day credit operations by the Eurosystem either upon issue or at any or all times during their life. Such recognition will depend upon the ECB being satisfied that Eurosystem eligibility criteria have been met. [As of the Original Issue Date, such criteria were not met]]

/[No. Whilst the designation is specified as “no” at the date of this Pricing Supplement, should the Eurosystem eligibility criteria be amended in the future such that the notes are capable of meeting them the notes may then be deposited with one of the ICSDs as common safekeeper [, and registered in the name of a nominee of one of the ICSDs acting as common safekeeper] *[include this text for Registered Notes]*. Note that this does not necessarily mean that the notes will then be recognised as eligible collateral for Eurosystem monetary policy and intra-day credit operations by the Eurosystem at any time during their life. Such recognition will depend upon the ECB being satisfied that Eurosystem eligibility criteria have been met.]

Clearing: [Euroclear Bank SA/NV and Clearstream Banking, *société anonyme*] [other applicable clearing system]

Gross-up and Call in the Case of Tax Law Changes: *[For notes subject to gross-up and call in the case of tax law changes:* Applicable; see “Description of the Program — Payment of Additional Amounts” and “— Redemption and Repayment — Redemption Upon Obligation to Pay Additional

Amounts” in the offering circular] *[For all other notes:* The Issuer will not gross up any payments due on the notes and will not compensate the Holder for any amount that may be withheld or due because of tax law changes with regard to withholding tax or certain reporting requirements nor therefore will the right of the Issuer to redeem the notes arising from the payment of additional amounts be applicable; see “Description of the Program — Payment of Additional Amounts” and “— Redemption and Repayment” in the offering circular]

Calculation Agent: Goldman Sachs International

Underwriter: *[Name, address, description]* [None]

Guarantor: None

Listing: [Application has been made to the Luxembourg Stock Exchange for the notes to be listed on the Official List of the Luxembourg Stock Exchange and admitted to trading on the Euro MTF. See “Listing and General Information” in the offering circular”.] *[Other]* [For all other notes: None.]

[Section 871(m): [The Issuer has determined that the notes will not be subject to withholding under Section 871(m) of the U.S. Internal Revenue Code] *[Other]*]

Prohibition of Sales to EEA Retail Investors: [Applicable/Not Applicable] *(If the notes clearly do not constitute “packaged” products, “Not Applicable” should be specified. If the notes may constitute “packaged” products and no KID will be prepared, “Applicable” should be specified.)*

[Q&A]

[How do the notes work?

We have designed the notes for investors who wish to receive a payment amount that is linked to ●.

As discussed in the offering circular, the notes offered by this Pricing Supplement are indexed notes that are part of a series of debt securities entitled “Euro Medium-Term notes, Series H” issued by us. The notes rank equally with all our other unsecured and unsubordinated debt and will mature on [Stated maturity date]. For more details, see [“Additional Terms Specific to Your Note” and] “Description of the Program — Features Common to All Notes” and “— Indexed Notes” in the offering circular.]

Will I receive periodic interest payments?

[Insert plain-English description of coupon payments or statement that there are none.]

What will I receive on the stated maturity date?

[Insert plain-English description of payments at maturity.]

What will I receive if I sell my note before the stated maturity date?

If you sell your note prior to the stated maturity date, which is [Stated maturity date], you will receive the market price for your note on the date of sale. The market price for your note on any given day may be influenced by many factors, such as the prevailing level of each of the indices, the volatility of each of the indices, expectations regarding the development of the reference price of each of the indices, the period until maturity and our creditworthiness. As a result, depending on the impact of these factors, if you sell your note prior to the stated maturity date, you may receive significantly less than the face amount of the note. It is also very unlikely that the secondary market price of your note will correlate with the prices of the index components. For more details, see “Risk Factors — Considerations Relating to Notes Generally — The Market Price of Any Notes We May Issue May Be Influenced by Many Unpredictable Factors and If You Buy a Note and Sell It Prior to the Stated Maturity Date, You May Receive Less Than the Face Amount of Your Note” in the offering circular.

Who publishes the index and what does it measure?]

[HYPOTHETICAL EXAMPLES]

[ADDITIONAL INVESTMENT CONSIDERATIONS SPECIFIC TO YOUR NOTE]

An investment in your note is subject to risks described in the offering circular under “Risk Factors” and “Risk Factors — Considerations Relating to Indexed Notes” in particular and to the risks described below. Your note is a riskier investment than ordinary debt securities. Also, your note is not equivalent to investing directly in the index components — i.e., the [contracts, securities, stocks or bonds] comprising the indices to which your note is linked. You should carefully consider whether the notes are suited to your particular circumstances.

In this Pricing Supplement, when we refer to an index, we mean [any of the indices] [the index], or any successor index to [any of the indices] [the index], as [they] [it] may be modified, replaced or adjusted from time to time as described under “Description of the Program — Indexed Notes” in the offering circular. When we refer to an index sponsor as of any time, we mean the entity that determines and publishes [any of the indices] [the index], as appropriate and then in effect, including any successor sponsor. When we refer to the index [contracts, securities, stocks or bonds] as of any time, we mean the [contracts, securities, stocks or bonds] that comprise any of the indices as then in effect, after giving effect to any additions, deletions or substitutions. References herein to the “index components” are references to the index [contracts, securities, stocks or bonds] by reference to which the indices are calculated.

Assuming No Changes in Market Conditions or Our Creditworthiness and Other Relevant Factors, the Value of Your Note on the Date of This Pricing Supplement (As Determined by Reference to Pricing Models Used by Goldman Sachs and Taking Into Account Our Credit Spreads) Is and the Price You May Receive For Your Notes May Be Significantly Less than the Original Issue Price

The value or quoted price of your note at any time will reflect many factors and cannot be predicted. If Goldman Sachs makes a market in the notes, the price quoted by us or our affiliates for your note would reflect any changes in market conditions and other relevant factors, including a deterioration in our creditworthiness or perceived creditworthiness whether measured by our credit ratings or other credit measures. These changes may adversely affect the market price of your notes, including the price you may receive for your notes in any market making transaction. The quoted price could be higher or lower than the original issue price, and may be higher or lower than the value of your note as determined by reference to pricing models used by Goldman Sachs and taking into account our credit spreads.

If at any time a third party dealer quotes a price to purchase your note or otherwise values your note, that price may be significantly different (higher or lower) than any price quoted by Goldman Sachs. See “Risk Factors — Considerations Relating to Notes Generally —

The Market Price of Any Notes We May Issue May Be Influenced by Many Unpredictable Factors and If You Buy a Note and Sell It Prior to the Stated Maturity Date, You May Receive Less Than the Face Amount of Your Note” in the offering circular.

Furthermore, if you sell your note, you will likely be charged a commission for secondary market transactions, or the price will likely reflect a dealer discount.

There is no assurance that Goldman Sachs or any other party will be willing to purchase your note, and in this regard Goldman Sachs is not obligated to make a market in your note. See “Risk Factors — Considerations Relating to Notes Generally — Any Notes We May Issue May Not Have an Active Trading Market” in the offering circular.]

[Other investment considerations specific to the note being offered.]

[Any rate of return you may earn on an investment in your note may be lower than that which you could earn on a comparable investment in the index [contracts, securities, stocks and bonds] or other index components. Depending on the tax treatment applicable to your note, tax liabilities could affect the after-tax rate of return on your note to a comparatively greater extent than the after-tax return on the [contracts, securities, stocks and bonds].

[Payments on your note are economically equivalent to the amounts that would be paid on

a combination of other instruments. For example, payments on your note are economically equivalent to the amounts that would be paid on a combination of an interest-bearing bond bought, and an option sold or bought, by the holder (with an implicit option premium paid over time to or by the holder). The discussion in this paragraph does not modify or affect the terms of the notes or the U.S. income tax treatment of the notes as described under "United States Taxation" in the offering circular.]

[ADDITIONAL TERMS SPECIFIC TO YOUR NOTE]

We refer to the notes offered by this Pricing Supplement, including your note, as the notes. The notes are part of a series of debt securities, entitled “Euro Medium-Term notes, Series H”, that we may issue under the Fiscal Agency Agreement from time to time. The notes are also “indexed notes”, as defined in the offering circular. This Pricing Supplement summarizes specific financial and other terms that apply to the notes, including your note; terms that apply generally to all Series H Euro Medium-Term notes are described under “Description of the Program” in the offering circular. The terms described in this Pricing Supplement supplement those described in the offering circular and, if the terms described here are inconsistent with those described there, the terms described here are controlling.

Please note that the information about the original issue date, original issue price and net proceeds to us on the front cover page of this Pricing Supplement relates only to the initial offer and sale of the notes. If you have purchased your note in a subsequent market-making transaction, information about the price and date of any such transaction will be provided in a separate confirmation of sale.

[In anticipation of the sale of the notes, we and our affiliates may enter into hedging transactions as described under “Indexed Notes — Hedging in Connection with Issuance of Indexed Notes” in the offering circular.]

In addition to the terms described in the summary information section of this Pricing Supplement, the following terms will apply to your note:

[Type of note]

[Other terms specific to the note being offered.]

[If applicable: Insert a description of the possibility to reduce subscriptions and the manner for refunding excess amount paid by applicants.]

[If applicable: Insert details of the minimum and/or maximum amount of application, (whether

in number of securities or aggregate amount to invest).]

[If applicable: Insert the method and time limits for paying up the securities and for delivery of the securities.]

[If applicable: Insert a full description of the manner and date in which results of the offer are to be made public.]

[If applicable: Insert the procedure for the exercise of any right of pre-emption, the negotiability of subscription rights and the treatment of subscription rights not exercised.]

[If applicable: Insert an indication of the expected price at which the securities will be offered or the method of determining the price and the process for its disclosure and an indication of the amount of any expenses and taxes specifically charged to the subscriber or purchaser.]

[If applicable: Insert the time period, including any possible amendments, during which the offer will be open and description of the application process.]

[Any rate of return you may earn on an investment in your note may be lower than that which you could earn on a comparable investment in the index [contracts, securities, stocks and bonds] or other index components. Depending on the tax treatment applicable to your note, tax liabilities could affect the after-tax rate of return on your note to a comparatively greater extent than the after-tax return on the [contracts, securities, stocks and bonds].

[Payments on your note are economically equivalent to the amounts that would be paid on a combination of other instruments. For example, payments on your note are economically equivalent to the amounts that would be paid on a combination of an interest-bearing bond bought, and an option sold or bought, by the holder (with an implicit option premium paid over time to or by the holder). The discussion in this paragraph does not modify or affect the terms of the notes or the U.S. income tax treatment of the notes as described under “United States Taxation” in the offering circular.]

[INFORMATION ABOUT THE [INDEX] [INDICES][STOCK][STOCKS][BOND][BONDS]

We have compiled all information regarding the [index] [indices] [stock] [stocks] [bond] [bonds] discussed in this Pricing Supplement, including their make-up, method of calculation and changes in their components, from publicly available information.

[We accept responsibility as to the correct reproduction of such information, but do not accept any further or other responsibility, including any responsibility for the calculation, maintenance or publication of, or for any error, omission or disruption in, [the index] [any of the indices] [the stock] [any of the stocks] [the bond] [any of the bonds], and do not make any representation or give any warranty that the publicly available information about the [index] [indices] [stock] [stocks] [bond] [bonds] is accurate or complete.

The information set forth below reflects the policies of, and is subject to change by, the [relevant] index sponsor or sponsors. [The] [Each] index sponsor owns the copyright and all other rights to the [respective] index. [The index sponsor does not have] [No index sponsor has] any obligation to continue to publish, and may discontinue publication of, the [relevant] index at any time.]

[We do not intend to provide any post-issuance information with respect to [the] [any] [index] described in the offering circular or this pricing supplement, if not otherwise required by all applicable laws and regulations.]

[The • Index] [Stock] [Bond]

[Information specific to each of the indices, stocks or bonds used in the note being offered. If the index is described in the offering circular, include a cross-reference. If the note is linked to a stock or basket of stocks, indicate the ISIN code of the relevant stock or stocks and the relevant weightings of each stock in the basket.]

More information on the • index, including information about historical and future performance and volatility of the index, is available on the following website: <http://www.●.com>. We are not incorporating this website or any material it includes by reference into this Pricing Supplement or the offering circular.

References herein to the index sponsor with respect to the • index are references to • in its capacity as sponsor of the • index.

[Licensing]

We [expect to enter] [have entered] into a non-exclusive license agreement with •, whereby we, in exchange for a fee, [will be] [are] permitted to use the • index in connection with the offer and sale of the notes. We are not affiliated with •; the only relationship between • and us is the licensing of the use of the • index and trademarks relating to the • index.

• is under no obligation to continue the calculation and dissemination of the • index. The notes are not sponsored, endorsed or promoted by •. No inference should be drawn from the information contained in this pricing supplement that • makes any representation or warranty, implied or express, to The Goldman Sachs Group, Inc., any holder of the notes or any member of the public regarding the advisability of investing in securities generally or in the notes in particular or the ability of the • index to track general [stock] [bond] market performance.

• determines, composes and calculates the index without regard to your note. • has no obligation to take into account your interest, or that of anyone else having an interest, in your note in determining, composing or calculating the index.

• is not responsible for and has not participated in the determination of the terms, prices or amount of your note and will not be responsible for or participate in any determination or calculation regarding the principal amount of your note payable at the stated maturity date. • has no obligation or liability in connection with the administration, marketing or trading of your note.

Neither we nor any of our affiliates accepts any responsibility for the calculation, maintenance or publication of the • index or any successor index.

• disclaims all responsibility for any errors or omissions in the calculation and dissemination of the index or the manner in which the index is

applied in determining any [initial index level or final index level] or any amount payable upon maturity of the notes.]

ADDITIONAL INFORMATION ABOUT THE PLAN OF DISTRIBUTION

[For non-syndicated offerings: We have agreed to sell to [Goldman Sachs International], and [Goldman Sachs International] has agreed to buy from us, the aggregate face amount of the notes specified on the front cover of this Pricing Supplement. [Goldman Sachs International] intends to resell the notes at the original issue price applicable to the notes to be resold in offshore transactions in reliance upon Regulation S under the Securities Act. Any notes sold by [Goldman Sachs International] to dealers may be resold by such dealers in negotiated transactions or otherwise, at varying prices determined at the time of sale, which prices may be different from the original issue price. In the future, [Goldman Sachs International] and our other affiliates may repurchase and resell the notes in market-making transactions, with resales being made at prices related to prevailing market prices at the time of resale or at negotiated prices.

The notes have not been registered under the Securities Act and may not be offered or sold in the United States or to U.S. persons (as those terms are defined in Regulation S under the Securities Act) unless an exemption from the registration requirements of the Securities Act is available. In particular, hedging transactions involving the notes may not be conducted other than in compliance with the Securities Act. Each purchaser of a note is deemed to agree to comply with the foregoing.

The address of Goldman Sachs International is Peterborough Court, 133 Fleet Street, London EC4A 2BB, United Kingdom.

[The original issue price reflects a discount of ●% representing a fee payable to ●.] [Goldman Sachs International may [also] pay an [additional] commission of ●% of the principal amount of the notes to ● in connection with the sale of the notes.]]

[For syndicated offerings: Subject to the Terms Agreement, dated ●, between us on the one hand and the Purchasing Agents named below (collectively, the “Purchasing Agents”) on the other, which incorporates certain provisions of the Distribution Agreement, dated [●] between us and Goldman Sachs International, as amended

or restated, if applicable, we have agreed to sell, and each of the Purchasing Agents has agreed to purchase, severally but not jointly, at a price of ●% of the principal amount of the notes, the principal amount of the notes set forth opposite their names in the table below:

Purchasing Agent	Principal amount of notes
Goldman Sachs International	●
●	●
●	●

Each of the Purchasing Agents will receive underwriting discounts and commissions in the amount of ●% of the principal amount of the notes underwritten by it. [A selling concession of ●% will be paid in respect of the aggregate principal amount of the notes sold by a Purchasing Agent.] The Purchasing Agents may pay a distribution fee for the placement of the notes.

[Include address of lead Purchasing Agent(s)]

The Purchasing Agents propose to offer the notes at the original issue price set forth on the cover page of this Pricing Supplement in offshore transactions in reliance upon Regulation S under the Securities Act. After the notes have been released to investors, the offering price and other selling terms may from time to time be varied by the Purchasing Agents.

The notes are new issue securities with no established trading market. Goldman Sachs International or other affiliates of us, and the other Purchasing Agents, may repurchase and resell the notes in market-making transactions, with resales being made at prices related to prevailing market prices at the time of resale or at negotiated prices. None of them, however, is obligated to do so and any of them may discontinue market-making at any time without notice.

Each of the Purchasing Agents has agreed with us that:

- *[Applicable selling restrictions.]*

For more information about the plan of distribution and possible market-making activities, see “Plan of Distribution” in the offering circular.



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