

Edgar Filing: CRYPTOLOGIC LTD - Form SC 13G

CRYPTOLOGIC LTD
Form SC 13G
February 13, 2008

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G
(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT
TO RULES 13d-1 (b) (c), AND (d) AND AMENDMENTS THERETO FILED
PURSUANT TO RULE 13d-2 (b)

CRYPTOLOGIC LIMITED

(Name of Issuer)

Common Shares

(Title of Class of Securities)

G3159C109

(CUSIP Number)

April 24, 2007

(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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CUSIP No. G3159C109

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1. NAMES OR REPORTING PERSONS

S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS

Renaissance Technologies LLC

26-0385758

2. CHECK APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

(a)

(b)

3. SEC USE ONLY

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4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

933,530

NUMBER OF
SHARES
BENEFICIALLY
OWNED BY
EACH
REPORTING
PERSON
WITH

6. SHARED VOTING POWER

0

7. SOLE DISPOSITIVE POWER

943,730

8. SHARED DISPOSITIVE POWER

0

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

943,730

10. CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
(SEE INSTRUCTIONS)

|_ |

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

6.79%

12. TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IA

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1. NAMES OR REPORTING PERSONS

S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS

James H. Simons

2. CHECK APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

(a) |_ |

(b) |_ |

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

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United States

5. SOLE VOTING POWER
933,530

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH
6. SHARED VOTING POWER
0

7. SOLE DISPOSITIVE POWER
943,730

8. SHARED DISPOSITIVE POWER
0

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
943,730

10. CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
6.79%

12. TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
IN

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Item 1.

(a) Name of Issuer.

CRYPTOLOGIC LIMITED

(b) Address of Issuer's Principal Executive Offices.

Alexandra House
The Sweepstakes
Ballsbridge
Dublin 4

Item 2.

(a) Name of Person Filing.

This Schedule 13G is being filed by Renaissance Technologies LLC ("RTC") and James H. Simons ("Simons").

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(b) Address of Principal Business Office or, if none, Residence.

The principal business address of the reporting persons is:

800 Third Avenue
New York, New York 10022

(c) Citizenship.

Dr. Simons is a United States citizen and
RTC is a Delaware limited liability company

(d) Title of Class of Securities.

Common Shares

(e) CUSIP Number.

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Item 3. If this statement is filed pursuant to Rule 13d-1(b) or 13d-2(b) or (c), check whether the person filing is a:

- (a) Broker or dealer registered under Section 15 of the Act.
- (b) Bank as defined in Section 3(a)(6) of the Act.
- (c) Insurance Company as defined in Section 3(a)(19) of the Act.
- (d) Investment Company registered under Section 8 of the Investment Company Act.
- (e) Investment Adviser in accordance with Sec. 240.13d-1(b)(1)(ii)(E).
- (f) Employee Benefit Plan or Endowment Fund in accordance with Sec. 240.13d1(b)(1)(ii)(F).
- (g) Parent holding company, in accordance with Sec. 240.13d-1(b)(ii)(G).
- (h) A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (i) A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940.
- (j) Group, in accordance with Sec. 240.13d-1(b)(1)(ii)(J).

If this statement is filed pursuant to Sec. 240.13d-1(c), check this box .

Item 4. Ownership

(a) Amount Beneficially Owned.

RTC: 943,730 shares

Simons: 943,730 shares, comprising the shares beneficially owned by RTC, because of Dr. Simons' position as control person of RTC.

(b) Percent of Class. RTC: 6.79%
Simons: 6.79%

(c) Number of shares as to which each such person has

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| | | |
|-------|--|---------------------------------|
| (i) | sole power to vote or to direct the vote: | RTC: 933,530 Simons: 933,530 |
| (ii) | shared power to vote or to direct the vote: | 0 |
| (iii) | sole power to dispose or to direct the disposition of: | RTC: 943,730 Simons: 943,730 |
| (iv) | shared power to dispose or to direct the disposition of: | 0 |

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Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Certain funds and accounts managed by RTC have the right to receive dividends and proceeds from the sale of the securities which are the subject of this report. RIEF Trading LLC holds of record more than 5% of such securities.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

Not applicable.

Item 8. Identification and Classification of Members of the Group.

Not applicable.

Item 9. Notice of Dissolution of Group.

Not applicable.

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Item 10. Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

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Date: February 12, 2008

/s/ James H. Simons

James H. Simons

Renaissance Technologies LLC

By: /s/ Mark Silber

Mark Silber
Executive Vice President

Attention: Intentional misstatements or omissions of fact constitute
Federal criminal violations (see 18 U.S.C. 1001).

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final level is less than the initial level, the absolute value of the underlying return may not result in a return on the Notes in excess of the conditional return. The level of the underlying asset will be influenced by complex and interrelated political, economic, financial and other factors that affect the issuers of the underlying equity constituents (the “underlying constituent issuers”). You should be willing to accept the risks of owning equities in general and the underlying equity constituents in particular.

The underlying asset reflects price return, not total return — The return on your Notes is based on the performance of the underlying asset, which reflects the changes in the market prices of the underlying equity constituents. It is not, however, linked to a “total return” index or strategy, which, in addition to reflecting those price returns, would also reflect any dividends or distributions paid on the underlying equity constituents. The return on your Notes will not include such a total return feature or dividend component.

Changes affecting the underlying asset could have an adverse effect on the value of the Notes — The policies of the sponsor of the underlying asset, as specified under “Information About the Underlying Asset” (the “index sponsor”), concerning additions, deletions and substitutions of the underlying equity constituents and the manner in which the index sponsor takes account of certain changes affecting those underlying equity constituents may adversely affect the level of the underlying asset. The policies of the index sponsor with respect to the calculation of the underlying asset could also adversely affect the level of the underlying asset. The index sponsor may discontinue or suspend calculation or dissemination of the underlying asset. Any such actions could have an adverse effect on the market value of, or the amount payable on, the Notes.

UBS cannot control actions by the index sponsor and the index sponsor has no obligation to consider your interests — UBS and its affiliates are not affiliated with the index sponsor and have no ability to control or predict its actions, including any errors in or discontinuation of public disclosure regarding methods or policies relating to the calculation of the underlying asset. The index sponsor is not involved in the Notes offering in any way and has no obligation to consider your interest as an owner of the Notes in taking any actions that might affect the market value of, or the amount payable on, your Notes.

Potential UBS impact on price — Trading or transactions by UBS and/or its affiliates in the underlying equity constituents, listed and/or over-the-counter options, futures or other instruments with returns linked to the performance of the underlying asset or any underlying equity constituent may adversely affect the performance and, therefore, the market value of, and the amount payable on, the Notes.

Potential conflict of interest — UBS and its affiliates may engage in business with any underlying constituent issuer, which may present a conflict between the obligations of UBS and you, as a holder of the Notes. There are also potential conflicts of interest between you and the calculation agent, which will be an affiliate of UBS. The calculation agent can postpone the determination of the terms of the Notes on the trade date and the closing level on

any trading day during the observation period (including the final valuation date), if a market disruption event occurs and is continuing on that day. As UBS determines the economic terms of the Notes, including the conditional return and lower barrier, and such terms include any underwriting discount, hedging costs, issuance costs and projected profits, the Notes represent a package of economic terms. There are other potential conflicts of interest insofar as an investor could potentially get better economic terms if that investor entered into exchange-traded and/or OTC derivatives or other instruments with third parties, assuming that such instruments were available and the investor had the ability to assemble and enter into such instruments.

Dealer incentives — UBS and its affiliates act in various capacities with respect to the Notes. We and our affiliates may act as a principal, agent or dealer in connection with the sale of the Notes. Such affiliates, including the sales representatives, will derive compensation from the distribution of the Notes and such compensation may serve as an incentive to sell these Notes instead of other investments. We will pay a total underwriting compensation in an amount equal to any underwriting discount listed on the cover hereof per Note to any of our affiliates acting as agents or dealers in connection with the distribution of the Notes. Given that UBS Securities LLC and its affiliates temporarily maintain a market making premium, it may have the effect of discouraging UBS Securities LLC and its affiliates from recommending sale of your Notes in the secondary market.

Potentially inconsistent research, opinions or recommendations by UBS — UBS and its affiliates publish research from time to time on financial markets and other matters that may influence the value of the Notes, or express opinions or provide recommendations that are inconsistent with purchasing or holding the Notes. Any research, opinions or recommendations expressed by UBS or its affiliates may not be consistent with each other and may be modified from time to time without notice. Investors should make their own independent investigation of the merits of investing in the Notes and the underlying asset to which the Notes are linked.

The Notes are not bank deposits — An investment in the Notes carries risks which are very different from the risk profile of a bank deposit placed with UBS or its affiliates. The Notes have different yield and/or return, liquidity and risk profiles and would not benefit from any protection provided to deposits.

If UBS experiences financial difficulties, FINMA has the power to open restructuring or liquidation proceedings in respect of, and/or impose protective measures in relation to, UBS, which proceedings or measures may have a material adverse effect on the terms and market value of the Notes and/or the ability of UBS to make payments thereunder — The Swiss Financial Market Supervisory Authority (“FINMA”) has broad statutory powers to take measures and actions in relation to UBS if (i) it concludes that there is justified concern that UBS is over-indebted or has serious liquidity problems or (ii) UBS fails to fulfill the applicable capital adequacy requirements (whether on a standalone or consolidated basis) after expiry of a deadline set by FINMA. If one of these pre-requisites is met, FINMA is authorized to open restructuring proceedings or liquidation (bankruptcy) proceedings in respect of, and/or impose protective measures in relation to, UBS. The Swiss Banking Act grants significant discretion to FINMA in connection with the aforementioned proceedings and measures. In particular, a broad variety of protective measures may be imposed by FINMA, including a bank moratorium or a maturity postponement, which measures may be ordered by FINMA either on a stand-alone basis or in connection with restructuring or liquidation proceedings. The resolution regime of the Swiss Banking Act is further detailed in the FINMA Banking Insolvency Ordinance (“BIO-FINMA”). In a restructuring proceeding, FINMA, as resolution authority, is competent to approve the resolution plan. The resolution plan may, among other things, provide for (a) the transfer of all or a portion of UBS’ assets, debts, other liabilities and contracts (which may or may not include the contractual relationship between UBS and the holders of Notes) to another entity, (b) a stay (for a maximum of two business days) on the termination of contracts to which UBS is a party, and/or the exercise of (w) rights to terminate, (x) netting rights, (y) rights to enforce or dispose of collateral or (z) rights to transfer claims, liabilities or collateral under contracts to which UBS is a party, (c) the conversion of UBS’ debt and/or other obligations, including its obligations under the Notes, into equity (a “debt-to-equity” swap), and/or (d) the partial or full write-off of obligations owed by UBS (a “write-off”), including its obligations under the Notes. The BIO-FINMA provides that a debt-to-equity swap and/or a write-off of debt and other obligations (including the Notes) may only take place after (i) all debt instruments issued by UBS qualifying as additional tier 1 capital or tier 2 capital have been converted into equity or written-off, as applicable, and (ii) the existing equity of UBS has been fully cancelled. While the BIO-FINMA does not expressly address the order in which a write-off of debt instruments other than debt instruments qualifying as additional tier 1 capital or tier 2 capital should occur, it states that debt-to-equity swaps should occur in the following order: first, all subordinated claims not qualifying as regulatory capital; second, all other claims not excluded by law from a debt-to-equity swap (other than deposits); and third, deposits (in excess of the amount privileged by law). However, given the broad discretion granted to FINMA as the resolution authority, any restructuring plan in respect of UBS could provide that the claims under or in connection with the Notes will be partially or fully converted into equity or written-off, while preserving other obligations of UBS that rank *pari passu* with, or even junior to, UBS’ obligations under the Notes. Consequently, holders of Notes may lose all of some of their investment in the Notes. In the case of restructuring proceedings with respect to a systemically important Swiss bank (such as UBS), the creditors whose claims are affected by the restructuring plan will not have a right to vote on, reject, or seek the suspension of the restructuring plan. In addition, if a restructuring plan has been approved by FINMA, the rights of a creditor to seek judicial review of the restructuring plan (e.g., on the grounds that the plan would unduly prejudice the rights of holders of Notes or otherwise be in violation of the Swiss Banking Act) are very limited. In particular, a court may not suspend the implementation of the restructuring plan. Furthermore, even if a creditor successfully challenges the restructuring plan, the court can only require the relevant creditor to be compensated *ex post* and there is currently no guidance as

to on what basis such compensation would be calculated or how it would be funded.

Uncertain tax treatment — Significant aspects of the tax treatment of the Notes are uncertain. You should consult your tax advisor about your tax situation. See “What are the Tax Consequences of the Notes?” herein and “Material U.S. Federal Income Tax Consequences” in the accompanying product supplement.

Hypothetical Examples and Return Table of the Notes at Maturity

The below examples and table are based on hypothetical terms. **The actual terms are indicated on the cover hereof.**

The examples and table below illustrate the payment at maturity for a \$1,000 Note on a hypothetical offering of the Notes, with the following assumptions (amounts may have been rounded for ease of analysis):

| | |
|------------------------|--|
| Term: | 19 months |
| Initial Level: | 2,700 |
| Conditional Return: | 1.00% |
| Lower Barrier: | 2,025 (equal to Initial Level minus 25.00% of the Initial Level) |
| Maximum Payment Amount | \$1,250.00 per Note |

Example 1 — A barrier event occurs during the observation period so the Notes are redeemed early.

Because a barrier event occurs, meaning the closing level of the underlying asset is less than the lower barrier on a trading day during the observation period, the Notes will be redeemed early and UBS will pay you an amount in cash per Note on the call payment date equal to the principal amount plus a return equal to the conditional return, calculated as follows:

$$\begin{aligned} & \$1,000 \times (1 + 1.00\%) \\ & = \$1,010 \text{ per Note (a 1.00\% total return).} \end{aligned}$$

Example 2 — A barrier event does not occur during the observation period, so the Notes are not redeemed early, and the underlying return is 10%.

Though the Notes are not redeemed early because a barrier event does not occur, because the final level is equal to or greater than the initial level, UBS will pay you an amount in cash per Note on the maturity date equal to the principal amount plus a return equal to the conditional return, calculated as follows:

$$\begin{aligned} & \$1,000 \times (1 + 1.00\%) \\ & = \$1,010 \text{ per Note (a 1.00\% total return).} \end{aligned}$$

Example 3 — A barrier event does not occur during the observation period, so the Notes are not redeemed early, and the underlying return is -0.50%.

Because a barrier event does not occur, the Notes are not redeemed early and the final level of the underlying asset has depreciated relative to the initial level, UBS will pay you an amount in cash per Note on the maturity date equal to the principal amount plus a return equal to the absolute value of the underlying return, calculated as follows:

$$\begin{aligned} & \$1,000 \times (1 + |-0.50\%|) \\ & = \$1,005 \text{ per Note (a 0.50\% total return).} \end{aligned}$$

In this scenario, because the absolute value of the underlying return is less than the conditional return, your return is less than it would have been if either the Notes were redeemed early due to a barrier event or the final level was equal to or greater than the initial level.

Example 4 — A barrier event does not occur during the observation period, so the Notes are not redeemed early, and the underlying return is -20%.

Because a barrier event does not occur, the Notes are not redeemed early and the final level of the underlying asset has depreciated relative to the initial level, UBS will pay you an amount in cash per Note on the maturity date equal to the principal amount plus a return equal to the absolute value of the underlying return, calculated as follows:

$\$1,000 \times (1 + 20.00\%)$
= \$1,200 per Note (a 20.00% total return).

Table 1: Return on the Notes if a barrier event does not occur, so the Notes are not redeemed early.

| Underlying Return | Payment at Total | |
|-------------------|------------------|-----------------------------|
| | Maturity | Return per Note at Maturity |
| 25.00% | \$1,010.00 | 1.00% |
| 20.00% | \$1,010.00 | 1.00% |
| 15.00% | \$1,010.00 | 1.00% |
| 10.00% | \$1,010.00 | 1.00% |
| 5.00% | \$1,010.00 | 1.00% |
| 2.00% | \$1,010.00 | 1.00% |
| 1.00% | \$1,010.00 | 1.00% |
| 0.00% | \$1,010.00 | 1.00% |
| -5.00% | \$1,050.00 | 5.00% |
| -10.00% | \$1,100.00 | 10.00% |
| -15.00% | \$1,150.00 | 15.00% |
| -20.00% | \$1,200.00 | 20.00% |
| -25.00% | \$1,250.00 | 25.00% |

Information About the Underlying Asset

All disclosures contained in this document regarding the underlying asset are derived from publicly available information. UBS has not conducted any independent review or due diligence of any publicly available information with respect to the underlying asset. You should make your own investigation into the underlying asset.

Included on the following pages is a brief description of the underlying asset. This information has been obtained from publicly available sources. Set forth below is a table that provides the quarterly closing high and quarterly closing low for the underlying asset. We obtained the closing level information set forth below from Bloomberg Professional[®] service (“Bloomberg”) without independent verification. You should not take the historical prices of the underlying asset as an indication of future performance.

S&P 500[®] Index

We have derived all information regarding the S&P 500[®] Index (“SPX”) contained in this document, including, without limitation, its make-up, method of calculation and changes in its components from publicly available information. Such information reflects the policies of, and is subject to change by S&P Dow Jones Indices LLC (its “index sponsor” or “S&P Dow Jones”).

SPX is published by S&P Dow Jones, but S&P Dow Jones has no obligation to continue to publish SPX, and may discontinue publication of SPX at any time. SPX is determined, comprised and calculated by S&P Dow Jones without regard to the Notes.

As discussed more fully in the index supplement under the heading “Underlying Indices and Underlying Index Publishers — S&P 500 Index”, SPX is intended to provide an indication of the pattern of common stock price movement. The calculation of the value of SPX is based on the relative value of the aggregate market value of the common stock of 500 companies as of a particular time compared to the aggregate average market value of the common stocks of 500 similar companies during the base period of the years 1941 through 1943. Eleven main groups of companies comprise SPX, with the percentage weight of each group in the index as a whole as of January 31, 2019 as follows: Information Technology (19.9%), Health Care (15.1%), Financials (13.5%), Communication Services (10.3%), Consumer Discretionary (10.1%), Industrials (9.5%), Consumer Staples (7.2%), Energy (5.5%), Utilities (3.2%), Real Estate (3.0%) and Materials (2.7%). As of September 28, 2018, the underlier sponsor broadened the current Telecommunication Services Sector and renamed it Communication Services. The renamed Sector includes the existing telecommunication companies, as well as companies selected from the Consumer Discretionary Sector previously currently classified under the Media Industry Group and the Internet & Direct Marketing Retail Sub-Industry, along with select companies currently previously classified in the Information Technology Sector. Effective March 10, 2017, company additions to the underlying asset should have an unadjusted company market capitalization of \$6.1 billion or more (an increase from the previous requirement of an unadjusted company market capitalization of \$5.3 billion or more).

Information from outside sources is not incorporated by reference in, and should not be considered part of, this document or any document incorporated herein by reference. UBS has not conducted any independent review or due diligence of any publicly available information with respect to SPX.

Historical Information

The following table sets forth the quarterly high and low closing levels for the S&P 500[®] Index, based on the daily closing levels as reported by Bloomberg, without independent verification. UBS has not conducted any independent review or due diligence of publicly available information obtained from Bloomberg. The closing level of the S&P 500[®] Index on February 25, 2019 was 2,796.11. ***Past performance of the S&P 500[®] Index is not indicative of the***

future performance of the S&P 500® Index.

| Quarter Begin | Quarter End | Quarterly Closing High | Quarterly Closing Low | Quarterly Close |
|---------------|-------------|------------------------|-----------------------|-----------------|
| 1/1/2015 | 3/31/2015 | 2,117.39 | 1,992.67 | 2,067.89 |
| 4/1/2015 | 6/30/2015 | 2,130.82 | 2,057.64 | 2,063.11 |
| 7/1/2015 | 9/30/2015 | 2,128.28 | 1,867.61 | 1,920.03 |
| 10/1/2015 | 12/31/2015 | 2,109.79 | 1,923.82 | 2,043.94 |
| 1/1/2016 | 3/31/2016 | 2,063.95 | 1,829.08 | 2,059.74 |
| 4/1/2016 | 6/30/2016 | 2,119.12 | 2,000.54 | 2,098.86 |
| 7/1/2016 | 9/30/2016 | 2,190.15 | 2,088.55 | 2,168.27 |
| 10/1/2016 | 12/31/2016 | 2,271.72 | 2,085.18 | 2,238.83 |
| 1/1/2017 | 3/31/2017 | 2,395.96 | 2,257.83 | 2,362.72 |
| 4/1/2017 | 6/30/2017 | 2,453.46 | 2,328.95 | 2,423.41 |
| 7/1/2017 | 9/30/2017 | 2,519.36 | 2,409.75 | 2,519.36 |
| 10/1/2017 | 12/31/2017 | 2,690.16 | 2,529.12 | 2,673.61 |
| 1/1/2018 | 3/31/2018 | 2,872.87 | 2,581.00 | 2,640.87 |
| 4/1/2018 | 6/30/2018 | 2,786.85 | 2,581.88 | 2,718.37 |
| 7/1/2018 | 9/30/2018 | 2,930.75 | 2,713.22 | 2,913.98 |
| 10/1/2018 | 12/31/2018 | 2,925.51 | 2,351.10 | 2,506.85 |
| 1/1/2019 | 2/25/2019* | 2,796.11 | 2,447.89 | 2,796.11 |

* The above table only includes data through this date. Accordingly, the “Quarterly Closing High”, “Quarterly Closing Low” and “Quarterly Close” data indicated are for this shortened period only and do not reflect complete data for this calendar quarter.

The graph below illustrates the performance of the S&P 500[®] Index from January 1, 2009 through February 25, 2019, based on information from Bloomberg. The dotted blue line represents the initial level of 2,796.11 and the dotted green line represents the lower barrier of 2,097.08, which is equal to the initial level minus 25.00% of the initial level. ***Past performance of the underlying asset is not indicative of the future performance of the underlying asset.***

What Are the Tax Consequences of the Notes?

The U.S. federal income tax consequences of your investment in the Notes are uncertain. There are no statutory provisions, regulations, published rulings or judicial decisions addressing the characterization for U.S. federal income tax purposes of securities with terms that are substantially the same as the Notes. Some of these tax consequences are summarized below, but we urge you to read the more detailed discussion in “Material U.S. Federal Income Tax Consequences” in the accompanying product supplement and discuss the tax consequences of your particular situation with your tax advisor. This discussion is based upon the Internal Revenue Code of 1986, as amended (the “Code”) and final, temporary and proposed U.S. Treasury Department (the “Treasury”) regulations, rulings and decisions, in each case, as available and in effect as of the date hereof, all of which are subject to change, possibly with retroactive effect. Tax consequences under state, local and non-U.S. laws are not addressed herein. No ruling from the U.S. Internal Revenue Service (the “IRS”) has been sought as to the U.S. federal income tax consequences of your investment in the Notes, and the following discussion is not binding on the IRS.

Additionally, the discussion herein and in the accompanying product supplement does not address the consequences to taxpayers subject to special tax accounting rules under Section 451(b) of the Code.

U.S. Tax Treatment. Your Notes should be treated as contingent payment debt instruments (“CPDI”) subject to taxation under the “noncontingent bond method”. If your Notes are so treated, you should generally, for each accrual period, accrue original issue discount (“OID”) equal to the product of (i) the “comparable yield” (adjusted for the length of the accrual period) and (ii) the “adjusted issue price” of the Notes at the beginning of the accrual period. This amount is ratably allocated to each day in the accrual period and is includible as ordinary interest income by a U.S. holder for each day in the accrual period on which the U.S. holder holds the CPDI, whether or not the amount of any payment is fixed or determinable in the taxable year. Thus, the noncontingent bond method will result in recognition of income prior to the receipt of cash.

In general, the comparable yield of a CPDI is equal to the yield at which we would issue a fixed rate debt instrument with terms and conditions similar to those of the CPDI, including the level of subordination, term, timing of payments, and general market conditions. In general, because similar fixed rate debt instruments issued by us are traded at a price that reflects a spread above a benchmark rate, the comparable yield is the sum of the benchmark rate on the issue date and the spread.

As the Notes have only a single contingent payment at upon early redemption or at maturity, the adjusted issue price of each Note at the beginning of each accrual period is equal to the issue price of the Note plus the amount of OID previously includible in the gross income of the U.S. holder in respect of prior accrual periods.

In addition to the determination of a comparable yield, the noncontingent bond method requires the construction of a projected payment schedule. The projected payment schedule includes the projected amounts for each contingent payment to be made under the CPDI that are adjusted to produce the comparable yield. We have determined that the comparable yield for the Notes is equal to 2.97% per annum, compounded semi-annually, with a projected payment at maturity of \$1,047.80 based on an investment of \$1,000.

Based on this comparable yield, if you are an initial holder that holds a Note until maturity and you calculate your taxes on a calendar year basis, we have determined that you would be required to report the following amounts as ordinary interest income from the Note, not taking into account any positive or negative adjustments you may be required to take into account based on actual payments on such Note:

| Accrual Period | Interest Deemed to Accrue During Accrual Period (per \$1,000 Note) | Total Interest Deemed to Have Accrued From Original Issue Date (per \$1,000 Note) as of End of Accrual Period |
|----------------|--|---|
|----------------|--|---|

| | | |
|--|---------|---------|
| February 28, 2019 through December 31, 2019 | \$24.98 | \$24.98 |
| January 1, 2020 through September 30, 2020 | \$22.82 | \$47.80 |

A U.S. holder of the Notes is required to use our projected payment schedule to determine its interest accruals and adjustments, unless such holder determines that our projected payment schedule is unreasonable, in which case such holder must disclose its own projected payment schedule in connection with its U.S. federal income tax return and the reason(s) why it is not using our projected payment schedule. **Neither the comparable yield nor the projected payment schedule constitutes a representation by us regarding the actual contingent amount, if any, that we will pay on a Note.**

If the actual amounts of contingent payments are different from the amounts reflected in the projected payment schedule, a U.S. holder is required to make adjustments in its OID accruals under the noncontingent bond method described above when those amounts are paid. Accordingly, an adjustment arising from the contingent payment made at maturity that is greater than the assumed amount of such payment is referred to as a “positive adjustment”; such adjustment arising from the contingent payment at maturity that is less than the assumed amount of such payment is referred to as a “negative adjustment”. Any positive adjustment for a taxable year is treated as additional OID income of the U.S. holder. Any net negative adjustment reduces any OID on the Note for the taxable year that would otherwise accrue. Any excess is then treated as a current-year ordinary loss to the U.S. holder to the extent of OID accrued in prior years.

In general, a U.S. holder’s basis in a CPDI is increased by the projected contingent payments accrued by such holder under the projected payment schedule (as determined without regard to adjustments made to reflect differences between actual and projected payments) and the projected amount of any contingent payments previously made. Gain on the taxable disposition of a CPDI generally is treated as ordinary income. Loss, on the other hand, is treated as ordinary loss only to the extent of the U.S. holder’s prior net OID inclusions (i.e., reduced by the total net negative adjustments previously allowed to the U.S. holder as an ordinary loss) and capital loss to the extent in excess thereof. However, the deductibility of a capital loss realized on the taxable disposition of a Note is subject to limitations. Under the rules governing CPDI, special rules would apply to a person who purchases Notes at a price other than the adjusted issue price as determined for tax purposes.

A U.S. holder that purchases a Note for an amount other than the public offering price of the Note will be required to adjust its OID inclusions to account for the difference. These adjustments will affect the U.S. holder's basis in the Note. Reports to U.S. holders may not include these adjustments. U.S. holders that purchase Notes at other than the issue price to public should consult their tax advisor regarding these adjustments.

Prospective investors should consult their tax advisor with respect to the application of the CPDI provisions to the Notes.

Based on certain factual representations received from us, our counsel, Cadwalader, Wickersham & Taft LLP, is of the opinion that your Notes should be treated in the manner described above.

Alternative Characterizations. However, because there is no authority that specifically addresses the tax treatment of the Notes, it is possible that your Notes could alternatively be treated pursuant to some other characterization, such that the timing and character of your income from the Notes could differ materially and adversely from the treatment described above. In particular, the IRS might assert that the Notes should be treated as deemed to be redeemed and reissued on any rebalancing of the underlying asset or rollover of, or change to, the underlying equity constituents.

Medicare Tax on Net Investment Income. U.S. holders that are individuals, estates or certain trusts are subject to an additional 3.8% tax on all or a portion of their "net investment income," or "undistributed net investment income" in the case of an estate or trust, which may include any income or gain realized with respect to the Notes, to the extent of their net investment income or undistributed net investment income (as the case may be), that when added to their other modified adjusted gross income, exceeds \$200,000 for an unmarried individual, \$250,000 for a married taxpayer filing a joint return (or a surviving spouse), \$125,000 for a married individual filing a separate return or the dollar amount at which the highest tax bracket begins for an estate or trust. The 3.8% Medicare tax is determined in a different manner than the regular income tax. U.S. holders should consult their tax advisors with respect to their consequences with respect to the 3.8% Medicare tax.

Specified Foreign Financial Assets. Certain U.S. holders that own "specified foreign financial assets" in excess of an applicable threshold may be subject to reporting obligations with respect to such assets with their tax returns, especially if such assets are held outside the custody of a U.S. financial institution. You are urged to consult your tax advisor as to the application of this legislation to your ownership of the Notes.

Non-U.S. Holders. Subject to "FATCA", discussed below, if you are a non-U.S. holder you should generally not be subject to U.S. withholding tax with respect to payments on your Notes or to generally applicable information reporting and backup withholding requirements with respect to payments on your Notes if you comply with certain certification and identification requirements as to your foreign status (by providing us (and/or the applicable withholding agent) with a fully completed and duly executed applicable IRS Form W-8). Gain from the taxable disposition of a Note generally should not be subject to U.S. tax unless (i) such gain is effectively connected with a trade or business conducted by the non-U.S. holder in the U.S., (ii) the non-U.S. holder is a non-resident alien individual and is present in the U.S. for 183 days or more during the taxable year of such taxable disposition and certain other conditions are satisfied or (iii) the non-U.S. holder has certain other present or former connections with the U.S.

Foreign Account Tax Compliance Act. The Foreign Account Tax Compliance Act ("FATCA") was enacted on March 18, 2010, and imposes a 30% U.S. withholding tax on "withholdable payments" (i.e., certain U.S. -source payments, including interest (and original issue discount), dividends, other fixed or determinable annual or periodical gain, profits, and income, and on the gross proceeds from a disposition of property of a type which can produce U.S.-source interest or dividends) and "passthru payments" (i.e., certain payments attributable to withholdable payments) made to certain foreign financial institutions (and certain of their affiliates) unless the payee foreign financial institution agrees

(or is required), among other things, to disclose the identity of any U.S. individual with an account of the institution (or the relevant affiliate) and to annually report certain information about such account. FATCA also requires withholding agents making withholdable payments to certain foreign entities that do not disclose the name, address, and taxpayer identification number of any substantial U.S. owners (or do not certify that they do not have any substantial U.S. owners) to withhold tax at a rate of 30%. Under certain circumstances, a holder may be eligible for refunds or credits of such taxes.

Pursuant to final and temporary Treasury regulations and other IRS guidance, the withholding and reporting requirements under FATCA will generally apply to certain “withholdable payments”, will not apply to gross proceeds on a sale or disposition, and will apply to certain foreign passthru payments only to the extent that such payments are made after the date that is two years after final regulations defining the term “foreign passthru payment” are published. If withholding is required, we (or the applicable paying agent) will not be required to pay additional amounts with respect to the amounts so withheld. Foreign financial institutions and non-financial foreign entities located in jurisdictions that have an intergovernmental agreement with the U.S. governing FATCA may be subject to different rules.

Investors should consult their tax advisor about the application of FATCA, in particular if they may be classified as financial institutions (or if they hold their Notes through a foreign entity) under the FATCA rules.

As mentioned above, alternative characterizations of the Notes for U.S. federal income tax purposes are possible. Should an alternative characterization of the Notes cause payments with respect to the Notes to become subject to withholding tax, we (or the applicable withholding agent) will withhold tax at the applicable statutory rate and we will not make payments of any additional amounts.

Both U.S. and non-U.S. holders are urged to consult their tax advisors concerning the application of U.S. federal income tax laws, including the portfolio interest rule, to their particular situations, as well as any tax consequences of the purchase, beneficial ownership and disposition of the Notes arising under the laws of any state, local, non-U.S. or other taxing jurisdiction.

Supplemental Plan of Distribution (Conflicts of Interest); Secondary Markets (if any)

We have agreed to sell to UBS Securities LLC and UBS Securities LLC has agreed to purchase, all of the Notes at the issue price to the public less any underwriting discount indicated on the cover hereof. UBS Securities LLC has agreed to resell all of the Notes to UBS Financial Services Inc. at a discount from the issue price to the public equal to the underwriting discount indicated on the cover hereof.

Conflicts of Interest — Each of UBS Securities LLC and UBS Financial Services Inc. is an affiliate of UBS and, as such, has a “conflict of interest” in this offering within the meaning of the Financial Industry Regulatory Authority, Inc. (“FINRA”) Rule 5121. In addition, UBS will receive the net proceeds (excluding the underwriting discount) from the initial public offering of the Notes, thus creating an additional conflict of interest within the meaning of FINRA Rule 5121. Consequently, the offering is being conducted in compliance with the provisions of FINRA Rule 5121. Neither UBS Securities LLC nor UBS Financial Services Inc. is permitted to sell Notes in this offering to an account over which it exercises discretionary authority without the prior specific written approval of the account holder.

UBS Securities LLC and its affiliates may offer to buy or sell the Notes in the secondary market (if any) at prices greater than UBS’ internal valuation — The value of the Notes at any time will vary based on many factors that cannot be predicted. However, the price (not including UBS Securities LLC or any affiliate’s customary bid-ask spreads) at which UBS Securities LLC or any affiliate would offer to buy or sell the Notes immediately after the trade date in the secondary market is expected to exceed the estimated initial value of the Notes as determined by reference to our internal pricing models. The amount of the excess will decline to zero on a straight line basis over a period ending no later than 5 months after the trade date, provided that UBS Securities LLC may shorten the period based on various factors, including the magnitude of purchases and other negotiated provisions with selling agents. Notwithstanding the foregoing, UBS Securities LLC and its affiliates intend, but are not required, to make a market for the Notes and may stop making a market at any time. For more information about secondary market offers and the estimated initial value of the Notes, see “Key Risks — Fair value considerations” and “— Limited or no secondary market and secondary market price considerations” herein.

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 2002/92/EC, as amended, where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or (iii) not a qualified investor as defined in Directive 2003/71/EC, as amended. 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.

Validity of the Notes

In the opinion of Cadwalader, Wickersham & Taft LLP, as special counsel to the issuer, when the Notes offered by this pricing supplement have been executed and issued by the issuer and authenticated by the trustee pursuant to the indenture and delivered, paid for and sold as contemplated herein, the Notes will be valid and binding obligations of the issuer, enforceable against the issuer in accordance with their terms, subject to applicable bankruptcy, insolvency, fraudulent conveyance, reorganization, moratorium, receivership or other laws relating to or affecting creditors' rights generally, and to general principles of equity (regardless of whether enforcement is sought in a proceeding at law or in equity). This opinion is given as of the date hereof and is limited to the laws of the State of New York. Insofar as this opinion involves matters governed by Swiss law, Cadwalader, Wickersham & Taft LLP has assumed, without independent inquiry or investigation, the validity of the matters opined on by Homburger AG, Swiss legal counsel for the issuer, in its opinion dated October 29, 2018 filed on that date with the Securities and Exchange Commission as Exhibit 5.3 to the issuer's registration statement on Form F-3 (the "Registration Statement"). In addition, this opinion is subject to customary assumptions about the trustee's authorization, execution and delivery of the indenture and, with respect to the Notes, authentication of the Notes and the genuineness of signatures and certain factual matters, all as stated in the opinion of Cadwalader, Wickersham & Taft LLP dated October 29, 2018 filed on that date with the Securities and Exchange Commission as Exhibit 5.4 to the Registration Statement.