

CIENA CORP  
Form 4  
April 01, 2016

**FORM 4**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

OMB APPROVAL

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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Rothenstein David M

(Last) (First) (Middle)

C/O CIENA CORPORATION, 7035  
RIDGE RD.

(Street)

HANOVER, MD 21076-1426

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
CIENA CORP [CIEN]

3. Date of Earliest Transaction  
(Month/Day/Year)

03/30/2016

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)

Sr. VP, General Counsel

6. Individual or Joint/Group Filing(Check Applicable Line)

Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
			Code	V	Amount (A) or (D) Price		
Common Stock	03/30/2016		S		2,000 (1)	D	\$ 19 281,921 (2) D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474  
(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr
				Code V (A) (D)		Date Exercisable      Expiration Date	Title      Amount or Number of Shares		

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Rothenstein David M C/O CIENA CORPORATION 7035 RIDGE RD. HANOVER, MD 21076-1426			Sr. VP, General Counsel	

## Signatures

By: Erik Lichter For: David M. Rothenstein      03/31/2016

\*\*Signature of Reporting Person      Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Sales were effected pursuant to Rule 10b5-1 trading plan dated 1/14/2016.
- (2) Shares reported include unvested Restricted Stock Units (RSUs) and Performance Stock Units (PSUs).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number. rincipal

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Amount, the Return on Your Investment Will Be Lower Than the Return on Notes Purchased at the Principal Amount and the Impact of Certain Key Terms of the Notes Will Be Negatively Affected” on page PS-15 of this pricing supplement.

**Payment on the stated maturity date:** for each \$1,000 principal amount note, we will pay you on the stated maturity date an amount in cash equal to:

· if the final underlier level is *greater than* or *equal to* the cap level, the maximum settlement amount;  
if the final underlier level is *greater than* the initial underlier level but *less than* the cap level, the *sum* of (i) \$1,000 *plus* (ii) the *product* of (a) \$1,000 *times* (b) the upside participation rate *times* (c) the underlier return; or  
if the final underlier level is *equal to* or *less than* the initial underlier level, the *sum* of (i) \$1,000 *plus* (ii) the *product* of (a) \$1,000 *times* (b) the underlier return. You will receive less than \$1,000 if the final underlier level is less than the initial underlier level.

**Initial underlier level (to be set on the trade date and will be the closing level of the underlier on the trade date):** . The accompanying product supplement refers to the initial underlier level as the “Initial Value.”

**Final underlier level:** the closing level of the underlier on the determination date. In certain circumstances, the closing level of the underlier will be based on the alternative calculation of the underlier described under “General Terms of Notes — Postponement of a Determination Date — Notes Linked to a Single Underlying — Notes Linked to a Single Underlying (Other Than a Commodity Index)” on page PS-44 of the accompanying product supplement or “The Underlyings — Indices — Discontinuation of an Index; Alteration of Method of Calculation” on page PS-68 of the accompanying product supplement. The accompanying product supplement refers to the final underlier level as the “Final Value.”

**Underlier return:** the *quotient* of (i) the final underlier level *minus* the initial underlier level *divided* by (ii) the initial underlier level, expressed as a percentage

**Upside participation rate:** 3.00

**Cap level (to be provided in the final pricing supplement):** expected to be between 104.50% and 105.29% of the initial underlier level

**Maximum settlement amount (to be provided in the final pricing supplement):** expected to be between \$1,135.00 and \$1,158.70

**Trade date:** on or about February 1, 2019

**Original issue date (settlement date):** on or about February 8, 2019

**Determination date:** March 2, 2020, subject to postponement in the event of a market disruption event and as described under “General Terms of Notes — Postponement of a Determination Date — Notes Linked to a Single Underlying — Notes Linked to a Single Underlying (Other Than a Commodity Index)” on page PS-44 of the accompanying product supplement

**Stated maturity date:** March 4, 2020, subject to postponement in the event of a market disruption event and as described under “General Terms of Notes — Postponement of a Payment Date” on page PS-44 of the accompanying product supplement. The accompanying product supplement refers to the stated maturity date as the “maturity date.”

**No interest:** The offered notes will not bear interest.

Explanation of Responses:

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

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**No redemption:** The offered notes will not be subject to redemption right or price dependent redemption right.

**Closing level:** as described under “The Underlyings — Indices — Level of an Index” on page PS-65 of the accompanying product supplement

**Business day:** as described under “General Terms of Notes — Postponement of a Payment Date” on page PS-44 of the accompanying product supplement

**Trading day:** as described under “General Terms of Notes — Postponement of a Determination Date — Additional Defined Terms” on page PS-47 of the accompanying product supplement

**Use of proceeds and hedging:** as described under “Use of Proceeds and Hedging” on page PS-43 of the accompanying product supplement, as supplemented by “ — Supplemental Use of Proceeds” below

**Tax treatment:** You should review carefully the section entitled “Material U.S. Federal Income Tax Consequences” in the accompanying product supplement no. 4-I. The following discussion, when read in combination with that section, constitutes the full opinion of our special tax counsel, Davis Polk & Wardwell LLP, regarding the material U.S. federal income tax consequences of owning and disposing of notes.

Based on current market conditions, in the opinion of our special tax counsel it is reasonable to treat the notes as “open transactions” that are not debt instruments for U.S. federal income tax purposes, as more fully described in “Material U.S. Federal Income Tax Consequences — Tax Consequences to U.S. Holders — Notes Treated as Open Transactions That Are Not Debt Instruments” in the accompanying product supplement. Assuming this treatment is respected, the gain or loss on your notes should be treated as long-term capital gain or loss if you hold your notes for more than a year, whether or not you are an initial purchaser of notes at the issue price. However, the IRS or a court may not respect this treatment, in which case the timing and character of any income or loss on the notes could be materially and adversely affected. In addition, in 2007 Treasury and the IRS released a notice requesting comments on the U.S. federal income tax treatment of “prepaid forward contracts” and similar instruments. The notice focuses in particular on whether to require investors in these instruments to accrue income over the term of their investment. It also asks for comments on a number of related topics, including the character of income or loss with respect to these instruments; the relevance of factors such as the nature of the underlying property to which the instruments are linked; the degree, if any, to which income (including any mandated accruals) realized by non-U.S. investors should be subject to withholding tax; and whether these instruments are or should be subject to the “constructive ownership” regime, which very generally can operate to recharacterize certain long-term capital gain as ordinary income and impose a notional interest charge. While the notice requests comments on appropriate transition rules and effective dates, any Treasury regulations or other guidance promulgated after consideration of these issues could materially and adversely affect the tax consequences of an investment in the notes, possibly with retroactive effect. You should consult your tax adviser regarding the U.S. federal income tax consequences of an investment in the notes, including possible alternative treatments and the issues presented by this notice.

Section 871(m) of the Code and Treasury regulations promulgated thereunder (“Section 871(m)”) generally impose a 30% withholding tax (unless an income tax treaty applies) on dividend equivalents paid or deemed paid to Non-U.S. Holders with respect to certain financial instruments linked to U.S. equities or indices that include U.S. equities. Section 871(m) provides certain exceptions to this withholding regime, including for instruments linked to certain broad-based indices that meet requirements set forth in the applicable Treasury regulations (such as an index, a “Qualified Index”). Additionally, a recent IRS notice excludes from the scope of Section 871(m) instruments issued prior to January 1, 2021 that do not have a delta of one with respect to underlying securities that could pay U.S.-source dividends for U.S. federal income tax purposes (each an “Underlying Security”). Based on certain determinations made by us, we expect that Section 871(m) will not apply to the notes with regard to Non-U.S. Holders. Our determination

is not binding on the IRS, and the IRS may disagree with this determination. Section 871(m) is complex and its application may depend on your particular circumstances, including whether you enter into other transactions with respect to an Underlying Security.

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If necessary, further information regarding the potential application of Section 871(m) will be provided in the pricing supplement for the notes. You should consult your tax adviser regarding the potential application of Section 871(m) to the notes.

Withholding under legislation commonly referred to as “FATCA” may (if the notes are recharacterized as debt instruments) apply to amounts treated as interest paid with respect to the notes, as well as to payments of gross proceeds of a taxable disposition, including redemption at maturity, of a note, although under recently proposed regulations (the preamble to which specifies that taxpayers are permitted to rely on them pending finalization), no withholding will apply to payments of gross proceeds (other than any amount treated as interest). You should consult your tax adviser regarding the potential application of FATCA to the notes.

**ERISA:** as described under “Benefit Plan Investor Considerations” on page PS-89 of the accompanying product supplement

**Supplemental plan of distribution:** as described under “Plan of Distribution (Conflicts of Interest)” on page PS-87 of the accompanying product supplement; we estimate that our share of the total offering expenses, excluding underwriting discounts and commissions, will be approximately \$ . We expect to agree to sell to JPMS, and JPMS expects to agree to purchase from us, the aggregate principal amount of the notes specified on the front cover of this pricing supplement. JPMS proposes initially to offer the notes to the public at the original issue price set forth on the cover page of this pricing supplement, and to an unaffiliated dealer at that price and to pay that dealer a selling commission not in excess of 1.33% of the principal amount. The original issue price for notes purchased by certain fee-based advisory accounts will be between 98.67% and 100.00% of the principal amount, which reflects a forgone selling commission with respect to these notes (*i.e.*, the selling commission specified on the cover of this pricing supplement with respect to these notes will be 0.00%).

We expect to deliver the notes against payment therefor in New York, New York on or about February 8, 2019, which is the fifth scheduled business day following the date of this pricing supplement and of the pricing of the notes. Under Rule 15c6-1 of the Securities Exchange Act of 1934, as amended, trades in the secondary market generally are required to settle in two business days, unless the parties to any such trade expressly agree otherwise. Accordingly, purchasers who wish to trade notes on any date prior to two business days before delivery will be required, by virtue of the fact that the notes are initially expected to settle in five business days (T + 5), to specify alternative settlement arrangements to prevent a failed settlement.

**Conflicts of interest:** JPMS has a “conflict of interest” within the meaning of FINRA Rule 5121 in any offering of the notes in which it participates because JPMorgan Chase & Co. owns, directly or indirectly, all of the outstanding equity securities of JPMS, because JPMS and we are under common control by JPMorgan Chase & Co. and because the net proceeds received from the sale of the notes will be used, in part, by JPMS or its affiliates in connection with hedging our obligations under the notes. The offering of the notes will comply with the requirements of Rule 5121 of Financial Industry Regulatory Authority, Inc. (“FINRA”) regarding a FINRA member firm’s underwriting of securities of an affiliate. In accordance with FINRA Rule 5121, neither JPMS nor any other affiliated agent of ours may make sales in the offering of the notes to any of its discretionary accounts without the specific written approval of the customer.

**Calculation agent:** JPMS

**CUSIP no.:** 48130WUF6

**ISIN no.:** US48130WUF66

Explanation of Responses:

**FDIC:** the notes are not bank deposits and are not insured by the Federal Deposit Insurance Corporation or any other governmental agency, nor are they obligations of, or guaranteed by, a bank.

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## Supplemental Terms of the Notes

For purposes of the notes offered by this pricing supplement, all references to each of the following terms used in the accompanying product supplement will be deemed to refer to the corresponding term used in this pricing supplement, as set forth in the table below:

<b>Product Supplement Term</b>	<b>Pricing Supplement Term</b>
Index	underlier
Initial Value	initial underlier level
Final Value	final underlier level
pricing date	trade date
maturity date	stated maturity date
term sheet	preliminary pricing supplement

In addition, the following terms used in this pricing supplement are not defined in the accompanying product supplement: underlier return, upside participation rate, maximum settlement amount and cap level. Accordingly, please refer to “Key Terms” on page PS-3 of this pricing supplement for the definitions of these terms.

## The Estimated Value of the Notes

The estimated value of the notes when the terms of the notes are set, which we refer to as the estimated value of the notes, set forth on the cover of this pricing supplement is equal to the sum of the values of the following hypothetical components: (1) a fixed-income debt component with the same maturity as the notes, valued using the internal funding rate described below, and (2) the derivative or derivatives underlying the economic terms of the notes. The estimated value of the notes does not represent a minimum price at which JPMS would be willing to buy your notes in any secondary market (if any exists) at any time. The internal funding rate used in the determination of the estimated value of the notes is based on, among other things, our and our affiliates’ view of the funding value of the notes as well as the higher issuance, operational and ongoing liability management costs of the notes in comparison to those costs for the conventional fixed-rate debt of JPMorgan Chase & Co. For additional information, see “Selected Risk Factors — The Estimated Value of the Notes Is Derived by Reference to an Internal Funding Rate” on page PS-13 of this pricing supplement. The value of the derivative or derivatives underlying the economic terms of the notes is derived from internal pricing models of our affiliates. These models are dependent on inputs such as the traded market prices of comparable derivative instruments and on various other inputs, some of which are market-observable, and which can include volatility, dividend rates, interest rates and other factors, as well as assumptions about future market events and/or environments. Accordingly, the estimated value of the notes is determined when the terms of the notes are set based on market conditions and other relevant factors and assumptions existing at that time. See “Selected Risk Factors — The Estimated Value of the Notes Does Not Represent Future Values of the Notes and May Differ from Others’ Estimates” on page PS-13 of this pricing supplement.

The estimated value of the notes will be lower than the original issue price of the notes because costs associated with selling, structuring and hedging the notes are included in the original issue price of the notes. These costs include the selling commissions paid to JPMS and the unaffiliated dealer, the projected profits, if any, that our affiliates expect to realize for assuming risks inherent in hedging our obligations under the notes and the estimated cost of hedging our obligations under the notes. Because hedging our obligations entails risk and may be influenced by market forces beyond our control, this hedging may result in a profit that is more or less than expected, or it may result in a loss. A portion of the profits realized in hedging our obligations under the notes, if any, may be allowed to other affiliated or

unaffiliated dealers, and we or one or more of our affiliates will retain any remaining hedging profits. See “Selected Risk Factors — The Estimated Value of the Notes Will Be Lower Than the Original Issue Price of the Notes” on page PS-13 of this pricing supplement.

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### Secondary Market Prices of the Notes

For information about factors that will impact any secondary market prices of the notes, see “Selected Risk Factors — Secondary Market Prices of the Notes Will Be Impacted by Many Economic and Market Factors” on page PS-14 of this pricing supplement. In addition, we generally expect that some of the costs included in the original issue price of the notes will be partially paid back to you in connection with any repurchases of your notes by JPMS in an amount that will decline to zero over the period from the trade date through May 1, 2019. The length of any such initial period reflects the structure of the notes, whether our affiliates expect to earn a profit in connection with our hedging activities, the estimated costs of hedging the notes and when these costs are incurred, as determined by our affiliates. See “Selected Risk Factors — The Value of the Notes as Published by JPMS (and Which May Be Reflected on Customer Account Statements) May Be Higher Than the Then-Current Estimated Value of the Notes for a Limited Time Period” on page PS-14 of this pricing supplement.

### Supplemental Use of Proceeds

The notes are offered to meet investor demand for products that reflect the risk-return profile and market exposure provided by the notes. See “Hypothetical Examples” on page PS-9 of this pricing supplement for an illustration of the risk-return profile of the notes and “The Underlier” on page PS-17 of this pricing supplement for a description of the market exposure provided by the notes.

The original issue price of the notes is equal to the estimated value of the notes plus the selling commissions paid to JPMS and the unaffiliated dealer, plus (minus) the projected profits (losses) that our affiliates expect to realize for assuming risks inherent in hedging our obligations under the notes, plus the estimated cost of hedging our obligations under the notes.

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## HYPOTHETICAL EXAMPLES

The following table and chart are provided for purposes of illustration only. They should not be taken as an indication or prediction of future investment results and are intended merely to illustrate the impact that the various hypothetical underlier levels on the determination date could have on the payment at maturity assuming all other variables remain constant.

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

The information in the following examples reflects hypothetical rates of return on the offered notes assuming that they are purchased on the original issue date at the principal amount and held to the stated maturity date. If you sell your notes in a secondary market prior to the stated maturity date, your return will depend upon the market value of your notes at the time of sale, which may be affected by a number of factors that are not reflected in the table below, such as interest rates, the volatility of the underlier and our and JPMorgan Chase & Co.'s creditworthiness. In addition, the estimated value of the notes will be less than the original issue price. For more information on the estimated value of the notes, see “Summary Information — The Estimated Value of the Notes” on page PS-7 of this pricing supplement. The information in the table also reflects the key terms and assumptions in the box below.

### Key Terms and Assumptions

Principal amount	\$1,000
Upside participation rate	3.00
Cap level	104.50% of the initial underlier level
Maximum settlement amount	\$1,135.00
Neither a market disruption event nor a non-trading day occurs on the originally scheduled determination date	

During the term of the notes, the underlier is not discontinued, the method of calculating the underlier does not change in any material respect and the underlier is not modified so that its level does not, in the opinion of the calculation agent, fairly represent the level of the underlier had those modifications not been made

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

Moreover, we have not yet set the initial underlier level that will serve as the baseline for determining the underlier return and the amount that we will pay on your notes, if any, at maturity. We will not do so until the trade date. As a result, the actual initial underlier level may differ substantially from the underlier level prior to the trade date.

For these reasons, the actual performance of the underlier over the term of your notes, as well as the amount payable at maturity, if any, may bear little relation to the hypothetical examples shown below or to the historical underlier levels shown elsewhere in this pricing supplement. For information about the historical levels of the underlier during

recent periods, see “The Underlier — Historical Closing Levels of the Underlier” below. Before investing in the offered notes, you should consult publicly available information to determine the levels of the underlier between the date of this pricing supplement and the date of your purchase of the offered notes.

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

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

<b>Hypothetical Final Underlier Level (as Percentage of Initial Underlier Level)</b>	<b>Hypothetical Payment at Maturity (as Percentage of Principal Amount)</b>
150.000%	113.500%
140.000%	113.500%
130.000%	113.500%
120.000%	113.500%
110.000%	113.500%
105.000%	113.500%
<b>104.500%</b>	<b>113.500%</b>
102.500%	107.500%
<b>100.000%</b>	<b>100.000%</b>
75.000%	75.000%
50.000%	50.000%
25.000%	25.000%
<b>0.000%</b>	<b>0.000%</b>

If, for example, the final underlier level were determined to be 25.000% of the initial underlier level, the payment that we would deliver on your notes at maturity would be 25.000% of the principal amount of your notes, as shown in the table above. As a result, if you purchased your notes on the original issue date at the principal amount and held them to the stated maturity date, you would lose 75.000% of your investment (if you purchased your notes at a premium to principal amount you would lose a correspondingly higher percentage of your investment). In addition, if the final underlier level were determined to be 150.000% of the initial underlier level, the payment that we would deliver on your notes at maturity would be capped at the maximum settlement amount (expressed as a percentage of the principal amount), or 113.500% of each \$1,000 principal amount note, as shown in the table above. As a result, if you held your notes to the stated maturity date, you would not benefit from any increase in the final underlier level over 104.500% of the initial underlier level.

The following chart also shows a graphical illustration of the hypothetical payments at maturity (expressed as a percentage of the principal amount of your notes) that we would pay on your notes on the stated maturity date, if the final underlier level (expressed as a percentage of the initial underlier level) were any of the hypothetical levels shown on the horizontal axis. The chart shows that any hypothetical final underlier level (expressed as a percentage of the initial underlier level) of less than 100.000% (the section left of the 100.000% marker on the horizontal axis) would result in a hypothetical payment at maturity of less than 100.000% of the principal amount of your notes (the section below the 100.000% marker on the vertical axis) and, accordingly, in a loss of principal to the holder of the notes. The chart also shows that any hypothetical final underlier level (expressed as a percentage of the initial underlier level) of

greater than or equal to 104.500% (the section right of the 104.500% marker on the horizontal axis) would result in a capped return on your investment.

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The payments at maturity shown above are entirely hypothetical; they are based on closing levels for the underlier that may not be achieved on the determination date and on assumptions that may prove to be erroneous. The actual market value of your notes on the stated maturity date or at any other time, including any time you may wish to sell your notes, may bear little relation to the hypothetical payments at maturity shown above, and these amounts should not be viewed as an indication of the financial return on an investment in the offered notes. The hypothetical payments at maturity on notes held to the stated maturity date in the examples above assume you purchased your notes at their principal amount and have not been adjusted to reflect the actual price you pay for your notes. The return on your investment (whether positive or negative) in your notes will be affected by the amount you pay for your notes. If you purchase your notes for a price other than the principal amount, the return on your investment will differ from, and may be significantly lower than, the hypothetical returns suggested by the above examples. Please read “Selected Risk Factors — Secondary Market Prices of the Notes Will Be Impacted by Many Economic and Market Factors” on page PS-14 of this pricing supplement.

The hypothetical returns on the notes shown above apply **only if you hold the notes for their entire term**. These hypotheticals do not reflect fees or expenses that would be associated with any sale in the secondary market. If these fees and expenses were included, the hypothetical returns shown above would likely be lower.

*We cannot predict the actual final underlier level or what the market value of your notes will be on any particular day, nor can we predict the relationship between the underlier level and the market value of your notes at any time prior to the stated maturity date. The actual amount that you will receive, if any, at maturity and the rate of return on the offered notes will depend on the actual initial underlier level, cap level and maximum settlement amount we will provide in the final pricing supplement and the actual final underlier level determined by the calculation agent as described above. Moreover, the assumptions on which the hypothetical returns are based may turn out to be inaccurate. Consequently, the amount of cash to be paid in respect of your notes, if any, on the stated maturity date may be very different from the information reflected in the table and chart above.*

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## Selected Risk Factors

*An investment in your notes is subject to the risks described below, as well as the risks described under the “Risk Factors” sections of the accompanying product supplement and the accompanying underlying supplement. Your notes are a riskier investment than ordinary debt securities. Also, your notes are not equivalent to investing directly in the underlier stocks, i.e., the stocks underlying the underlier to which your notes are linked. You should carefully consider whether the offered notes are suited to your particular circumstances.*

## You May Lose Some or All of Your Investment in the Notes

The notes do not guarantee any return of principal. The return on the notes at maturity is linked to the performance of the underlier and will depend on whether, and the extent to which, the underlier return is positive or negative. Your investment will be exposed to loss if the final underlier level is less than the initial underlier level. For every 1% that the final underlier level is less than the initial underlier level, you will lose an amount equal to 1% of the principal amount of your notes. Accordingly, you could lose some or all of your initial investment at maturity. Also, the market price of your notes prior to the stated maturity date may be significantly lower than the purchase price you pay for your notes. Consequently, if you sell your notes before the stated maturity date, you may receive far less than the amount of your investment in the notes.

## Your Maximum Gain on the Notes Is Limited to the Maximum Settlement Amount

If the final underlier level is greater than the initial underlier level, for each \$1,000 principal amount note, you will receive at maturity a payment that will not exceed the maximum settlement amount, regardless of the appreciation in the underlier, which may be significant. Accordingly, the amount payable on your notes may be significantly less than it would have been had you invested directly in the underlier. The maximum settlement amount will be provided in the final pricing supplement and is expected to be between \$1,135.00 and \$1,158.70.

## The Notes Are Subject to the Credit Risks of JPMorgan Financial and JPMorgan Chase & Co.

The notes are subject to our and JPMorgan Chase & Co.’s credit risks, and our and JPMorgan Chase & Co.’s credit ratings and credit spreads may adversely affect the market value of the notes. Investors are dependent on our and JPMorgan Chase & Co.’s ability to pay all amounts due on the notes. Any actual or potential change in our or JPMorgan Chase & Co.’s creditworthiness or credit spreads, as determined by the market for taking that credit risk, is likely to adversely affect the value of the notes. If we and JPMorgan Chase & Co. were to default on our payment obligations, you may not receive any amounts owed to you under the notes and you could lose your entire investment.

## As a Finance Subsidiary, JPMorgan Financial Has No Independent Operations and Has Limited Assets

As a finance subsidiary of JPMorgan Chase & Co., we have no independent operations beyond the issuance and administration of our securities. Aside from the initial capital contribution from JPMorgan Chase & Co., substantially all of our assets relate to obligations of our affiliates to make payments under loans made by us or other intercompany agreements. As a result, we are dependent upon payments from our affiliates to meet our obligations under the notes. If these affiliates do not make payments to us and we fail to make payments on the notes, you may have to seek payment under the related guarantee by JPMorgan Chase & Co., and that guarantee will rank *pari passu* with all other unsecured and unsubordinated obligations of JPMorgan Chase & Co.

## Potential Conflicts of Interest

We and our affiliates play a variety of roles in connection with the issuance of the notes, including acting as calculation agent and as an agent of the offering of the notes, hedging our obligations under the notes and making the assumptions used to determine the pricing of the notes and the estimated value of the notes. Also, the distributor from which you purchase the notes may conduct hedging activities for us in connection with the notes. In performing these duties, our and JPMorgan Chase & Co.'s economic

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interests, the economic interests of any distributor performing such duties and the economic interests of the calculation agent and other affiliates of ours are potentially adverse to your interests as an investor in the notes. In addition, our and JPMorgan Chase & Co.'s business activities, and the business activities of any distributor from which you purchase the notes, including hedging and trading activities, could cause our and JPMorgan Chase & Co.'s economic interests to be adverse to yours and could adversely affect any payment on the notes and the value of the notes. It is possible that hedging or trading activities of ours or our affiliates in connection with the notes could result in substantial returns for us or our affiliates while the value of the notes declines. If the distributor from which you purchase notes is to conduct hedging activities for us in connection with the notes, that distributor may profit in connection with such hedging activities and such profit, if any, will be in addition to the compensation that the distributor receives for the sale of the notes to you. You should be aware that the potential to earn fees in connection with hedging activities may create a further incentive for the distributor to sell the notes to you in addition to the compensation they would receive for the sale of the notes. Please refer to "Risk Factors — Risks Relating to Conflicts of Interest" on page PS-16 of the accompanying product supplement for additional information about these risks.

In addition, JPMorgan Chase & Co. is currently one of the companies that make up the underlier. JPMorgan Chase & Co. will not have any obligation to consider your interests as a holder of the notes in taking any corporate action that might affect the value of the underlier and the notes.

#### **The Estimated Value of the Notes Will Be Lower Than the Original Issue Price of the Notes**

The estimated value of the notes is only an estimate determined by reference to several factors. The original issue price of the notes will exceed the estimated value of the notes because costs associated with selling, structuring and hedging the notes are included in the original issue price of the notes. These costs include the selling commissions, the projected profits, if any, that our affiliates expect to realize for assuming risks inherent in hedging our obligations under the notes and the estimated cost of hedging our obligations under the notes. See "Summary Information — The Estimated Value of the Notes" on page PS-7 of this pricing supplement.

#### **The Estimated Value of the Notes Does Not Represent Future Values of the Notes and May Differ from Others' Estimates**

The estimated value of the notes is determined by reference to internal pricing models of our affiliates when the terms of the notes are set. This estimated value of the notes is based on market conditions and other relevant factors existing at that time and assumptions about market parameters, which can include volatility, dividend rates, interest rates and other factors. Different pricing models and assumptions could provide valuations for the notes that are greater than or less than the estimated value of the notes. In addition, market conditions and other relevant factors in the future may change, and any assumptions may prove to be incorrect. On future dates, the value of the notes could change significantly based on, among other things, changes in market conditions, our or JPMorgan Chase & Co.'s creditworthiness, interest rate movements and other relevant factors, which may impact the price, if any, at which JPMS would be willing to buy notes from you in secondary market transactions. See "Summary Information — The Estimated Value of the Notes" on page PS-7 of this pricing supplement.

#### **The Estimated Value of the Notes Is Derived by Reference to an Internal Funding Rate**

The internal funding rate used in the determination of the estimated value of the notes is based on, among other things, our and our affiliates' view of the funding value of the notes as well as the higher issuance, operational and ongoing liability management costs of the notes in comparison to those costs for the conventional fixed-rate debt of JPMorgan Chase & Co. The use of an internal funding rate and any potential changes to that rate may have an adverse effect on the terms of the notes and any secondary market prices of the notes. See "Summary Information — The Estimated Value of the Notes" on page PS-7 of this pricing supplement.

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**The Value of the Notes as Published by JPMS (and Which May Be Reflected on Customer Account Statements) May Be Higher Than the Then-Current Estimated Value of the Notes for a Limited Time Period**

We generally expect that some of the costs included in the original issue price of the notes will be partially paid back to you in connection with any repurchases of your notes by JPMS in an amount that will decline to zero over an initial predetermined period. These costs can include projected hedging profits, if any, and, in some circumstances, estimated hedging costs and our internal secondary market funding rates for structured debt issuances. See “Summary Information — Secondary Market Prices of the Notes” on page PS-8 of this pricing supplement for additional information relating to this initial period. Accordingly, the estimated value of your notes during this initial period may be lower than the value of the notes as published by JPMS (and which may be shown on your customer account statements).

**Secondary Market Prices of the Notes Will Likely Be Lower Than the Original Issue Price of the Notes**

Any secondary market prices of the notes will likely be lower than the original issue price of the notes because, among other things, secondary market prices take into account our internal secondary market funding rates for structured debt issuances and, also, because secondary market prices (a) exclude selling commissions and (b) may exclude projected hedging profits, if any, and estimated hedging costs that are included in the original issue price of the notes. As a result, the price, if any, at which JPMS will be willing to buy notes from you in secondary market transactions, if at all, is likely to be lower than the original issue price. Any sale by you prior to the maturity date could result in a substantial loss to you. See the immediately following risk consideration for information about additional factors that will impact any secondary market prices of the notes.

The notes are not designed to be short-term trading instruments. Accordingly, you should be able and willing to hold your notes to maturity. See “— Lack of Liquidity” on page PS-15 of this pricing supplement.

**Secondary Market Prices of the Notes Will Be Impacted by Many Economic and Market Factors**

The secondary market price of the notes during their term will be impacted by a number of economic and market factors, which may either offset or magnify each other, aside from the selling commissions, projected hedging profits, if any, estimated hedging costs and the level of the underlier, including:

- any actual or potential change in our or JPMorgan Chase & Co.’s creditworthiness or credit spreads;
  - customary bid-ask spreads for similarly sized trades;
- our internal secondary market funding rates for structured debt issuances;
  - the actual and expected volatility of the underlier;
- the time to maturity of the notes;
- the dividend rates on the underlier stocks;
- interest and yield rates in the market generally; and
- a variety of other economic, financial, political, regulatory and judicial events.

Additionally, independent pricing vendors and/or third party broker-dealers may publish a price for the notes, which may also be reflected on customer account statements. This price may be different (higher or lower) than the price of the notes, if any, at which JPMS may be willing to purchase your notes in the secondary market.

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

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

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

The amount you will be paid for your notes on the stated maturity date will not be adjusted based on the price you pay for the notes. If you purchase notes at a price that differs from the principal amount of the notes, then the return on your investment in the notes held to the stated maturity date will differ from, and may be substantially less than, the return on notes purchased at the principal amount. If you purchase your notes at a premium to the principal amount and hold them to the stated maturity date the return on your investment in the notes will be lower than it would have been had you purchased the notes at the principal amount or a discount to the principal amount. In addition, the impact of the cap level on the return on your investment will depend upon the price you pay for your notes relative to the principal amount. For example, if you purchase your notes at a premium to the principal amount, the cap level will permit only a lower percentage increase in your investment in the notes than would have been the case for notes purchased at the principal amount or a discount to the principal amount.

### **No Interest or Dividend Payments or Voting Rights**

As a holder of the notes, you will not receive interest payments. As a result, even if the amount payable for your notes on the stated maturity date exceeds the principal amount of your notes, the overall return you earn on your notes may be less than you would have earned by investing in a non-index-linked debt security of comparable maturity that bears interest at a prevailing market rate. In addition, as a holder of the notes, you will not have voting rights or rights to receive cash dividends or other distributions or other rights that holders of the underlier stocks would have.

### **Lack of Liquidity**

The notes will not be listed on any securities exchange. JPMS intends to offer to purchase the notes in the secondary market but is not required to do so. Even if there is a secondary market, it may not provide enough liquidity to allow you to trade or sell the notes easily. Because other dealers are not likely to make a secondary market for the notes, the price at which you may be able to trade your notes is likely to depend on the price, if any, at which JPMS is willing to buy the notes.

### **The Final Terms and Valuation of the Notes Will Be Provided in the Final Pricing Supplement**

The final terms of the notes will be based on relevant market conditions when the terms of the notes are set and will be provided in the final pricing supplement. In particular, each of the estimated value of the notes, the cap level and the maximum settlement amount will be provided in the final pricing supplement and each may be as low as the applicable minimum set forth on the cover of this pricing supplement or under “Summary Information — Key Terms,” as applicable. Accordingly, you should consider your potential investment in the notes based on the minimums for the estimated value of the notes, the cap level and the maximum settlement amount.

### **The Tax Consequences of an Investment in the Notes Are Uncertain**

There is no direct legal authority as to the proper U.S. federal income tax characterization of the notes, and we do not intend to request a ruling from the IRS. The IRS might not accept, and a court might not uphold, the treatment of the notes described in “Key Terms — Tax treatment” in this pricing supplement and in “Material U.S. Federal Income Tax Consequences” in the accompanying product supplement. If the IRS were successful in asserting an alternative treatment for the notes, the timing and character of any income or loss on the notes could differ materially and adversely from our description herein. In addition, in 2007 Treasury and the IRS released a notice requesting comments on the U.S. federal

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income tax treatment of “prepaid forward contracts” and similar instruments. The notice focuses in particular on whether to require investors in these instruments to accrue income over the term of their investment. It also asks for comments on a number of related topics, including the character of income or loss with respect to these instruments; the relevance of factors such as the nature of the underlying property to which the instruments are linked; the degree, if any, to which income (including any mandated accruals) realized by non-U.S. investors should be subject to withholding tax; and whether these instruments are or should be subject to the “constructive ownership” regime, which very generally can operate to recharacterize certain long-term capital gain as ordinary income and impose a notional interest charge. While the notice requests comments on appropriate transition rules and effective dates, any Treasury regulations or other guidance promulgated after consideration of these issues could materially and adversely affect the tax consequences of an investment in the notes, possibly with retroactive effect. You should review carefully the section entitled “Material U.S. Federal Income Tax Consequences” in the accompanying product supplement and consult your tax adviser regarding the U.S. federal income tax consequences of an investment in the notes, including possible alternative treatments and the issues presented by this notice.

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## THE Underlier

The S&P 500<sup>®</sup> Index consists of stocks of 500 companies selected to provide a performance benchmark for the U.S. equity markets. For additional information about the S&P 500<sup>®</sup> Index, see the information set forth under “Equity Index Descriptions — The S&P U.S. Indices” on page US-105 of the accompanying underlying supplement.

In addition, information about the S&P 500<sup>®</sup> Index may be obtained from other sources, including, but not limited to, the underlier sponsor’s website (including information regarding the underlier’s sector weightings). We are not incorporating by reference into this pricing supplement the website or any material it includes. Neither we nor any agent or dealer for this offering makes any representation that this publicly available information regarding the underlier is accurate or complete.

## Historical Closing Levels of the Underlier

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

**You should not take the historical levels of the underlier as an indication of the future performance of the underlier.** We cannot give you any assurance that the future performance of the underlier or the underlier stocks will result in a return of any of your initial investment on the stated maturity date. In light of the increased volatility currently being experienced by the financial services sector and U.S. and global securities markets, and recent market declines, it may be substantially more likely that you could lose all or a substantial portion of your investment in the notes.

Neither we nor any of our affiliates make any representation to you as to the performance of the underlier. The actual performance of the underlier over the term of the offered notes, as well as the amount payable at maturity, may bear little relation to the historical levels shown below.

The graph below shows the closing levels of the underlier on each day from January 2, 2014 through January 28, 2019. The closing level of the underlier on January 28, 2019 was 2,643.85. We obtained the closing levels listed in the graph above and below from the Bloomberg Professional<sup>®</sup> service (“Bloomberg”), without independent verification.

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We and JPMorgan Chase & Co. have not authorized anyone to provide any information other than that contained or incorporated by reference in this pricing supplement, the accompanying underlying supplement, the accompanying product supplement and the accompanying prospectus supplement and prospectus with respect to the notes offered by this pricing supplement and with respect to JPMorgan Financial or JPMorgan Chase & Co. We and JPMorgan Chase & Co. take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. This pricing supplement, together with the accompanying underlying supplement, the accompanying product supplement and the accompanying prospectus supplement and prospectus, contains the terms of the notes and supersedes all other prior or contemporaneous oral statements as well as any other written materials including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, fact sheets, brochures or other educational materials of ours. The information in this pricing supplement, the accompanying underlying supplement, the accompanying product supplement and the accompanying prospectus supplement and prospectus may be accurate only as of the dates of each of these documents, respectively. This pricing supplement, the accompanying underlying supplement, the accompanying product supplement and the accompanying prospectus supplement and prospectus do not constitute an offer to sell or a solicitation of an offer to buy the notes in any circumstances in which such offer or solicitation is unlawful.

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**JPMorgan Chase Financial Company LLC**

Capped Enhanced Participation Equity Notes due 2020  
(Linked to the S&P 500® Index)

**Medium-Term Notes, Series A**  
**Fully and Unconditionally Guaranteed by JPMorgan Chase & Co.**