FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

| OMB APPROVAL |
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## Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| 1. Name and Address of Reporting Person* <u>Locoh-Donou Francois</u>   |  |                              |             |                   |   | 2. Issuer Name <b>and</b> Ticker or Trading Symbol CIENA CORP [ CIEN ] |   |   |      |                    |  |   |               |         | Check                          | all app<br>Direc   | olicable)   | g Person(s) to I   |   |
|--|--|------------------------------|-------------|-------------------|---|--|---|---|------|--------------------|--|---|---------------|---------|--------------------------------|--|---|--|---|
| (Last) (First) (Middle) C/O CIENA CORPORATION 7035 RIDGE RD.   |  |                              |             |                   |   | 3. Date of Earliest Transaction (Month/Day/Year) 12/21/2016            |   |   |      |                    |  |   |               |         | X                              | below) below)  Chief Operating Officer   |   |  |   |
| (Street) HANOV (City)  |  | MD 21076-1426  (State) (Zip) |             |                   |   | 4. If Amendment, Date of Original Filed (Month/Day/Year)               |   |   |      |                    |  |   |               |         | i. Indiv<br>ine)<br>X          | ividual or Joint/Group Filing (Check Applicable  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. Tr  |  |                              |             | 2. Transa<br>Date | . Transaction   |  |   | 2A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) |      | ction<br>Instr.    | 4. Securities Acquired (A)<br>Disposed Of (D) (Instr. 3, 4 |   |               |         | or 5. Ar<br>4 and Secu<br>Bene |  | ount of<br>ities<br>icially<br>d Following                        | 6. Ownership<br>Form: Direct<br>(D) or Indirect<br>(I) (Instr. 4)  | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|  |  |                              |             |                   |   |  |   |   | Code | v                  | Amount   |   | (A) or<br>(D) | Price   | е                              | Transa   | action(s)<br>3 and 4)   |  | (11150.4)   |
| Common   | Stock  |                              |             | 12/21/            | 2016  |  |   |   | S    |                    | 952(1)   |   | D             | \$24    | 1.67                           | 32   | 3,475(2)  | D  |   |
| Common   | 12/21/2016   |                              |             |                   |   | S  |   | 1,132(3)  |      | D                  | \$24.67  |   | 322,343(2)    |         | D                              |  |   |  |   |
| Common Stock   |  |                              |             | 12/21/2016        |   |  |   |   | S    |                    | 3,385(3)   |   | D             | \$24.67 |                                | 318,958(2)   |   | D  |   |
| Common Stock   |  |                              |             | 12/21/2016        |   |  |   |   | S    |                    | 774(4)   |   | D             | \$24.67 |                                | 318,184(2)   |   | D  |   |
| Common Stock   |  |                              |             | 12/21/2016        |   |  |   |   | S    |                    | 9,601(5)   |   | D             | \$24.67 |                                | 308,583(2)   |   | D  |   |
| Common Stock   |  |                              |             | 12/21/2016        |   |  |   |   | S    |                    | 3,027 <sup>(5)</sup>                                       |   | D             | \$24.67 |                                | 305,556 <sup>(2)</sup>   |   | D  |   |
| Common Stock   |  |                              |             | 12/21/2016        |   | $\perp$  |   |   | S    |                    | 1,344 <sup>(6)</sup>                                       |   | D             | \$24.67 |                                | 304,212(2)   |   | D  |   |
| Common Stock   |  |                              |             | 12/21/2016        |   |  |   |   | S    |                    | 2,099 <sup>(7)</sup>                                       |   | D             | \$24.67 |                                | 30   | 2,113(2)  | D  |   |
| Common Stock   |  |                              |             | 12/21/2016        |   | $\perp$  |   |   | S    |                    | 3,489 <sup>(7)</sup>                                       |   | D             | \$24    | · .                            |  | 8,624(2)  | D  |   |
|  |  |                              |             | 12/21/            |   |  |   |   | S    |                    | 940(8)   |   | D             |         |                                | <u> </u>   | 7,684 <sup>(2)</sup>  | D  |   |
|  |  | 7                            | able II - I |                   |   |  |   |   |      |                    | sed of,<br>onvertib  |   |               |         |                                | wned   |   |  |   |
| L. Title of Derivative Security (Instr. 3)  2. Conversion or Exercise Price of Derivative Security  (Month/Day/Year)  3. Transaction Date (Month/Day/Year)  (Month/Day/Year)  34. Deemed Execution Date, if any (Month/Day/Year) |  |                              | n Date,     | Code (I           | of Derivative (A) or Dispose of (D) (Instr. 3, and 5) |  | vative<br>vrities<br>uired<br>r<br>osed<br>)<br>r. 3, 4 |   |      | Ar) Se Ur De Se an |  | 7. Title and Amount of Securities Underlying Derivative Security (Instr. : and 4)  Amount or Number of Title Shares |               |         |                                | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)                                    | Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | 11. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |   |

- 1. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a restricted stock unit (RSU) award agreement dated 12/18/2012. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/20/2012.
- 2. Shares reported include unvested Restricted Stock Units (RSUs) and Performance Stock Units (PSUs).
- 3. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a performance stock unit (PSU) award agreement dated 12/17/2013. The earning of the PSU was previously reported on Table I of reporting person's Form 4 on 12/19/2014.
- 4. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a restricted stock unit (RSU) award agreement dated 12/17/2013. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/19/2013.
- 5. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a performance stock unit (PSU) award agreement dated 12/17/2014. The earning of the PSU was previously reported on Table I of reporting person's Form 4 on 12/17/2015.
- 6. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a restricted stock unit (RSU) award agreement dated 12/17/2014. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/19/2014.
- 7. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a performance stock unit (PSU) award agreement dated 12/15/2015. The earning of the PSU was previously reported on Table I of reporting person's Form 4 on 12/16/2016.
- 8. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a restricted stock unit (RSU) award agreement dated 12/15/2015. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/17/2015.

By: Michelle Griswold For: Francois Locoh-Donou

12/22/2016

\*\* Signature of Reporting Person

Date

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

\* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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