CIENA CORP Form 4 March 31, 2011

FORM 4

OMB APPROVAL

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

OMB 3235-0287 Number:

January 31,

Check this box if no longer subject to Section 16. Form 4 or

Expires:

2005 Estimated average burden hours per response... 0.5

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

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(City)

(State)

(Zip)

(Print or Type Responses)

| 1. Name and Address of Reporting Person * NETTLES PATRICK H | | | 2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN] | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) | | | |
|---|----------|----------------------|---|--|--|--|--|
| (Last) C/O CIENA (WINTERSO) | | (Middle) ATION, 1201 | 3. Date of Earliest Transaction (Month/Day/Year) 03/23/2011 | X Director 10% Owner Officer (give title Other (specify below) | | | |
| LINTHICUM | (Street) | 0 | 4. If Amendment, Date Original Filed(Month/Day/Year) | 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person | | | |

| 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. Securion(A) or D (Instr. 3, | ispose | d of (D) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--------------------------------------|---|---|---|--------------------------------|-----------|-------------|--|--|---|
| | | | Code V | Amount | or (D) | Price | (Instr. 3 and 4) | | |
| Common Stock | 03/23/2011 | | A(1) | 3,905 | A | \$ 0 | 384,909 | D | |
| Common Stock | 03/29/2011 | | S(2) | 1,855 | D | \$ 23.41 | 383,054 (3) | D | |

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

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

| 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exerc | cisable and | 7. Title | and | 8. Price of | 9. Nu |
|-------------|-------------|---------------------|--------------------|-------------------|------------|---------------|-----------------|-----------------|--------|-------------|--------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | TransactionNumber | | Expiration D | iration Date | | t of | Derivative | Deriv |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Underly | ing | Security | Secui |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | e | | Securitie | es | (Instr. 5) | Bene |
| | Derivative | | | | Securities | | | (Instr. 3 | and 4) | | Own |
| | Security | | | | Acquired | | | | | | Follo |
| | • | | | | (A) or | | | | | | Repo |
| | | | | | Disposed | | | | | | Trans |
| | | | | | of (D) | | | | | | (Instr |
| | | | | | (Instr. 3, | | | | | | |
| | | | | | 4, and 5) | | | | | | |
| | | | | | | | | ^ | mount | | |
| | | | | | | | | | mount | | |
| | | | | | | Date | Expiration Date | Title N | | | |
| | | | | | | Exercisable | | Title Number of | | | |
| | | | | C + V | (A) (D) | | | | | | |
| | | | | Code V | (A) (D) | | | S | hares | | |

Reporting Owners

Relationships Reporting Owner Name / Address 10% Owner Officer Other Director NETTLES PATRICK H C/O CIENA CORPORATION X 1201 WINTERSON ROAD LINTHICUM,, MD 21090

Signatures

By: Erik Lichter For: Patrick H. 03/30/2011 Nettles

> **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) Restricted stock units (RSUs) vests in three equal installments on the one-, two- and three-year anniversaries of the grant date.
- Shares represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a (2) restricted stock unit (RSU) award agreement dated 3/25/09. Acquisition of the RSU was previously reported in Table I of reporting persons Form 4 on 3/27/09.
- (3) Shares reported include unvested Restricted Stock Units (RSUs).

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.

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