Rothenstein David M Form 4 June 23, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

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OMB APPROVAL

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

SECURITIES Form 5 obligations may continue.

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 See Instruction

1(b).

(Print or Type Responses)

| 1. Name and Address of Reporting Person ** Rothenstein David M | | | 2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN] | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) | | |
|--|------------|------------|--|--|--|--|
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction | (Check an applicable) | | |
| | | | (Month/Day/Year) | Director 10% Owner | | |
| C/O CIENA CORPORATION, 1201 WINTERSON ROAD | | TION, 1201 | 06/22/2009 | X Officer (give title Other (specify below) Sr. VP, General Counsel | | |
| | (Street) | | 4. If Amendment, Date Original | 6. Individual or Joint/Group Filing(Check | | |
| LINTHICUM | ,, MD 2109 | 90 | Filed(Month/Day/Year) | Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person | | |

| (City) | (State) | (Zip) 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. Transactio Code (Instr. 8) | 4. Securities Acquire or Disposed of (D) (Instr. 3, 4 and 5) (A) or | | (D) 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 Indirect Beneficial Ownership (Instr. 4) | |
| Common Stock | 06/22/2009 | | Code V S | Amount 233 (1) | . , | Price \$ 10.1662 | 110,803 | D | | |
| Common Stock | 06/22/2009 | | S | 173 (2) | D | \$ 10.1649 | 110,630 | D | | |
| Common Stock | 06/22/2009 | | S | 224 (3) | D | \$ 10.165 | 110,406 | D | | |
| Common Stock | 06/22/2009 | | S | 2,666 (4) | D | \$ 10.1659 | 107,740 (5) | 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)

| 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exerc | cisable and | 7. Title an | d 8. Price of | 9. Nu |
|-------------|-------------|---------------------|--------------------|------------|-------------|---------------|-----------------|--------------|---------------|--------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transactio | onNumber | Expiration Da | ate | Amount of | f Derivative | Deriv |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Underlying | g Security | Secui |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | e | | Securities | (Instr. 5) | Bene |
| | Derivative | | | | Securities | | | (Instr. 3 ar | nd 4) | Own |
| | Security | | | | Acquired | | | | | Follo |
| | • | | | | (A) or | | | | | Repo |
| | | | | | Disposed | | | | | Trans |
| | | | | | of (D) | | | | | (Instr |
| | | | | | (Instr. 3, | | | | | |
| | | | | | 4, and 5) | | | | | |
| | | | | | | | | Δm | nount | |
| | | | | | | | | or | lount | |
| | | | | | | Date | Expiration | | mber | |
| | | | | | Exercisable | Date | Title Number of | illoci | | |
| | | | | Code V | (A) (D) | | | Sha | ares | |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Rothenstein David M C/O CIENA CORPORATION 1201 WINTERSON ROAD LINTHICUM,, MD 21090

Sr. VP, General Counsel

Signatures

David M

Rothenstein 06/23/2009

**Signature of Date

Reporting Person

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).
- Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related (1) to a restricted stock unit (RSU) award agreement dated 12/18/2006. RSU was previously reported in Table I of reporting person's Form 3 on 11/4/08.
- Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related (2) to a restricted stock unit (RSU) award agreement dated 12/18/2007. RSU was previously reported in Table I of reporting person's Form 3 on 11/4/08.
- (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 restricted stock unit (RSU) award agreement dated 10/28/2008. RSU was previously reported in Table I of reporting person's Form 3

Reporting Owners 2

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on 11/4/08.

- Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related (4) to a restricted stock unit (RSU) award agreement dated 12/16/2008. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/18/2008.
- (5) 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.