

SECURITIES AND EXCHANGE COMMISSION

FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2007-12-10** | Period of Report: **2007-12-07**
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REPORTING OWNER

SMITH ARTHUR D

CIK: **1266066**

Type: **4** | Act: **34** | File No.: **000-21969** | Film No.: **071295819**

Mailing Address
1201 WINTERSON ROAD
LINTHICUM MD 21090

Business Address
410-694-5700

ISSUER

CIENA CORP

CIK: **936395** | IRS No.: **232725311** | State of Incorporation: **DE** | Fiscal Year End: **1031**
SIC: **3661** Telephone & telegraph apparatus

Mailing Address
1201 WINTERSON ROAD
LINTHICUM MD 21090

Business Address
1201 WINTERSON ROAD
LINTHICUM MD 21090
4108658500

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

1. Name and Address of Reporting Person SMITH ARTHUR D			2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) CHIEF OPERATING OFFICER		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 12/07/2007					
C/O CIENA CORPORATION, 1201 WINTERSON ROAD			4. If Amendment, Date Original Filed(Month/Day/Year)			6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person		
(Street) LINTHICUM,, MD 21090								
(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. 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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	12/07/2007		<u>M</u>		2,514	A	\$16.52	56,406	D	
Common Stock	12/07/2007		<u>M</u>		1,785	A	\$19.95	58,191	D	
Common Stock	12/07/2007		<u>S</u> ⁽¹⁾		4,299	D	\$43.6377 ⁽²⁾	53,892	D	

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

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 Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Non-Qualified Stock Option (right to buy)	\$16.52	12/07/2007		<u>M</u>			2,514	⁽³⁾	11/02/2015	Common Stock	2,514	\$ 0	24,531	D	

Non-Qualified Stock Option (right to buy)	\$19.95	12/07/2007		<u>M</u>		1,785	(4)	12/10/2014	Common Stock	1,785	\$ 0	1,063	D
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Explanation of Responses:

1. Sales were effected pursuant to Rule 10b5-1 trading plan dated 3/19/07.
2. Reflects the average sale price of the total shares sold. Actual sales prices are as follows: 1,499 shares at \$43.80; 100 shares at \$43.76; 1,000 shares at \$43.61; 135 shares at \$43.55; 100 shares at \$43.54; 100 shares at \$43.53; 100 shares at \$43.52; 900 shares at \$43.50; 165 shares at \$43.49; 10 shares at \$43.47; and 190 shares at \$43.46.
3. Option vests at a rate of 25% on the last day of the month of the one year anniversary of the grant date and 2.084% for each of the 36 months thereafter.
4. Option is fully vested.

Signatures

By: Erik Lichter For: Arthur D. Smith

** Signature of Reporting Person

12/10/2007

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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