## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Check this box if no longer subject Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).	to
 ama and Address of Departing D	

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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*  ALEXANDER STEPHEN B						2. Issuer Name and Ticker or Trading Symbol CIENA CORP [ CIEN ]								Check	all app			s) to Issuer .0% Owner Other (specify
(Last) (First) (Middle) C/O CIENA CORPORATION 1201 WINTERSON ROAD						3. Date of Earliest Transaction (Month/Day/Year) 10/15/2009								X	belov	below) bel		)
(Street) LINTHICUM, MD 21090					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person				
(City)	(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/Ye						2A. Deemed Execution Date,			3. Transaction Code (Instr. 8)  4. Securities Acquired (A Disposed Of (D) (Instr. 3,				d (A) or		5. Amount of Securities Beneficially		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price		Trans	action(s) 3 and 4)		(Instr. 4)
Common Stock 10/15/200							9		S <sup>(1)</sup>		5,000	D	\$14.26	14.2665 <sup>(2)</sup>		4,203(3)	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)	vative Conversion Date Execution D or Exercise (Month/Day/Year) if any			ition Date,		4. Transaction Code (Instr. 3)		f lerivative securities lecquired A) or isposed f (D) instr. 3, 4 nd 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)  Amount or Number of Title Shares		ice of vative urity r. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

## **Explanation of Responses:**

- 1. Sales were effected pursuant to Rule 10b5-1 trading plan dated 12/20/06, as amended.
- 2. Reflects the weighted average sales price with transactions in a range of sales prices from \$14.25 to \$14.30. Upon request by the SEC, full information regarding the number of shares sold at each separate sales price will be provided.
- 3. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik J. Lichter For: Stephen B. Alexander

10/16/2009

\*\* 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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.