FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Check this box if no longer subject to
Section 16. Form 4 or Form 5
bligations may continue. See

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* <u>ALEXANDER STEPHEN B</u>						2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN]								Check	all app	olicable)		ssuer Owner (specify
(Last) (First) (Middle) C/O CIENA CORPORATION 1201 WINTERSON ROAD						3. Date of Earliest Transaction (Month/Day/Year) 06/15/2010								X	belov	w) ``	below chnology Off)
(Street) LINTHICUM, MD 21090 (City) (State) (Zip)						4. If Amendment, Date of 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				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yell)						if any	tion Da	ion Date,		3. Transaction Code (Instr. 8) 4. Securities Disposed Of				d 5) Secu Bene Owne Repo		ficially d Following rted	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	٧	Amount	(A) or (D)	Price		(Instr.	action(s) 3 and 4)		
Common	010	10			S ⁽¹⁾		5,000	D	\$14.47	'02 ⁽²⁾	30	3,567 ⁽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)	Derivative Conversion Date Exe- Security or Exercise (Month/Day/Year) if ar					action (Instr.	Str. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. : and 4) Amount or Number of Title Shares		8. Price of Derivative Security (Instr. 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 \$14.43 to \$14.52. 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 Lichter For: Stephen

06/15/2010

<u>Alexander</u>

** 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.