FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number:	3235-0287								
	Estimated average burden									
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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)		Issuer Owner r (specify
(Last) (First) (Middle) C/O CIENA CORPORATION 1201 WINTERSON ROAD						3. Date of Earliest Transaction (Month/Day/Year) 12/15/2010								X	belov	w) ``	belo chnology Of	w)
(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)	(S	tate) (Zip)															
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye						Execution Date,		·	3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				5)	Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
					Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)				
Common	010	10			S ⁽¹⁾		5,000	D	\$18.97	48(2)	25	52,021(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 Date, irity or Exercise (Month/Day/Year) if any				ransaction of ode (Instr. Deriv		ative rities ired osed	Expir	te Exer ration D th/Day/		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Deriv Secu (Inst	ivative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	l,	(A)	(D)	Date	cisable	Expiration Date	Title	Number of Shares					

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 \$18.95 to \$19.02. 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

12/15/2010

B Alexander

** 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.