FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

١	Nas	hing	ton,	D.C.	20549	

wasiiiigioii, D.C. 20549	OMB APPROVAL		
STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP	OMB Number:	3235-	
	Estimated average hur	den	

OMB Number:	3235-0287
Estimated average but	rden
hours per response:	0.5

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* ALEXANDER STEPHEN B					2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN]								(Check	all app	olicable)		ssuer Owner (specify	
(1.1.00)						3. Date of Earliest Transaction (Month/Day/Year) 09/15/2010								X	belov	oelow) Sr VP Chief Technolog)
(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)	(St		(Zip)		<u> </u>											•		
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye					on	2A. Deemed Execution Date,		3. 4. Securities A			Acquired (A) or (D) (Instr. 3, 4 and		5. Am Secur Benef Owne Repo		ount of ities ficially d Following rted action(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common Stock 09/15/201					010	10		\dashv	S ⁽¹⁾		5,000	(D)			(Instr. 3 and 4) (2) 277,505 ⁽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 Execution Security or Exercise (Month/Day/Year) if any		ition Date,		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		ative rities ired osed . 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Date Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amount or Number of Title Shares				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 \$14.84 to \$14.92. 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 **B** Alexander

09/15/2010

** 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.