FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

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

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	tionship of Reporting all applicable) Director Officer (give title below) Sr VP Chief Tec		g Person(s) to Issuer 10% Owner Other (specify		
	(First) (Middle) ENA CORPORATION TINTERSON ROAD					3. Date of Earliest Transaction (Month/Day/Year) 12/15/2009								X			belov	v)`	
(Street) LINTHIC	CUM, M	D 2	21090 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								5. Indiv ine) X	·				
		Tabl	e I - 1	Non-Deriv	ative	Secu	uritie	s Ac	quire	ed, D	isposed o	f, or E	Benefici	ally (Owne	ed			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yell)					Execution D		,	Code (Inst		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			od 5) Sed Bed Ow		ount of rities ficially d Following rted	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									v	Amount	(A) or (D)	Price		Trans	action(s) . 3 and 4)		(111341. 4)		
Common Stock 12/15/200					009	09			S ⁽¹⁾		5,000	D	\$10.9283(2)		30	3,748 ⁽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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execu	eemed Ition Date, h/Day/Year)	4. Transa Code (8)		5. Num of Derive Secun Acqu (A) or Dispo of (D) (Instr. and 5	ative rities ired osed	Expir (Mon	te Exer ation D th/Day/	Year)	7. Title Amour Securi Underl Deriva Securi and 4)	nt of ties ying			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 \$10.90 to \$10.96. 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

12/15/2009

** 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.