FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

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

ALEXA (Last)							2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN] 3. Date of Earliest Transaction (Month/Day/Year) 05/17/2010								ationship of Reporting (all applicable) Director Officer (give title below) Sr VP Chief Tec		10% Owner Other (specify below)	
C/O CIENA CORPORATION 1201 WINTERSON ROAD					4 11	4. If Amendment, Date of Original Filed (Month/Day/Year)								S Indiv	idual o	r Joint/Groun	Filing (Check A	Annlicable
(Street) LINTHICUM, MD 21090 (City) (State) (Zip)				-	4. II Americinent, Date of Original Filed (Month/Day/Year)								ine) X	,				
		Tabl	e I - N	Non-Deriv	/ative	Sec	uritie	s Ac	quire	ed, Di	isposed o	f, or E	Benefic	ially (Owne	ed		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yell)						Execution Date,		/	3. Transaction Code (Instr. 8) 4. Securities Disposed Of					d 5) Sec Ben		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
										v	Amount	(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)			(11301. 4)
Common	Stock			05/17/20	010	10			S ⁽¹⁾		5,000	D	\$16.56	6.5677(2)		8,567 ⁽³⁾	D	
		Та	ble II								oosed of, convertib				vned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, if any		4. Transa Code (8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			vative ırity r. 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	V	(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 \$16.49 to \$16.62. 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

05/17/2010

** 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.