FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

Name and Address of Reporting Person*						2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
SMITH GARY B					15.	<u>.L., 17.</u>		111	CILI	.]				X	Direc	ctor	10% (Owner
(Last)	(Fi	st) (Middle)				Date of Earliest Transaction (Month/Day/Year)										er (give title w)	Other below	(specify
C/O CIENA CORPORATION						04/19/2010								PRESIDENT, CEO				
1201 WINTERSON ROAD																		
						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)				
(Street) LINTHICUM, MD 21090													.ine) X	,				
LINTHICUM, MD 21090					_										Form filed by More than One Reporting			
(City)	(City) (State) (Zip)														Pers	on		
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,						Acquired (A) or (D) (Instr. 3, 4 and		5) Secur Benef Owne		ficially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
								Ì	Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)
Common Stock 04/19/201					010	0			S ⁽¹⁾		6,250	D	\$17.2548(2)		65	54,373 ⁽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)	if any	eemed tion Date, h/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exer Expiration I (Month/Day)		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			vative irity 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 Exerc	cisable	Expiration Date	Title	Amount or Number of Shares					

Explanation of Responses:

- 1. Sales were effected pursuant to Rule 10b5-1 trading plan dated December 30, 2009.
- 2. Reflects the weighted average sales price with transactions in a range of sales prices from \$17.04 to \$17.59. 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: Gary B. Smith

04/20/2010

** 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.