FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C	C. 20549
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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* SMITH GARY B						2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
										-				X	Dire	ctor	10%	Owner	
(Last)	(F	irst) (Middle)		3 [ate of	Farlies	t Trans	saction	(Montl	h/Day/Year)			X	Officer (give title below)		Othe belov	r (specify v)	
C/O CIENA CORPORATION						3. Date of Earliest Transaction (Month/Day/Year) 08/24/2010										PRESIDENT, CEO		´	
1201 WINTERSON ROAD																			
					- 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) LINTHIC	CUM. N	MD 21090												X Form filed by One Reporting Person					
					-									Form filed by More than One Reporting Person					
(City)	(5	itate) (Zip)																
		Tab	le I - N	on-Deriv	/ative	Sec	uritie	s Ac	quire	d, Di	sposed o	f, or B	enefici	ially	Owne	ed			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day)						Execution Date,			3. 4. Securitie Transaction Code (Instr. 8)					and 5) Se Be Ov		ount of rities ficially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)			(11150.4)		
Common Stock 08/24/20					010			S ⁽¹⁾		6,250	D	\$12.2	06(2)	572,343 ⁽³⁾		D			
		Ta	able II								osed of, convertib				vned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	emed ion Date, /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 Exerc Expiration Di (Month/Day/\)		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Deri	rice of ivative urity tr. 5)	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)	
					Code	v	(A)	(D)	Date Exerci	sable	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 \$12.00 to \$12.40. 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: Gary B Smith

08/25/2010

** 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.