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

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 Director 10% Owner					
(Last)	(F NA CORF	(First) (Middle) A CORPORATION FERSON ROAD					3. Date of Earliest Transaction (Month/Day/Year) 03/22/2010								Offic below	er (give title w)		Owner (specify /)
(Street) LINTHIC			21090 (Zip)		- 4. If -	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indi Line) X	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
Date				2. Transac Date (Month/Da		Execution D		ate,	Code (Instr.		4. Securities Disposed O		nd 5) Secur Benef		icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) (D)	Pric	е	Trans	action(s) 3 and 4)		(111501.4)
Common Stock					/2010				S		506(1)	D	\$14	1.4719	6	90,732	D	
Common Stock 03/2				03/22/2	2010	010			S		14,625(2)	D	\$14	\$14.4726		76,107	D	
Common Stock 03/22/				2010	010			S	s 2,984 ⁽³⁾		D	\$14	\$14.4731		3,123(4)	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. Conversior or Exercise Price of Derivative Security	(Month/Day/Year) if any (Month/Day/Year) 8)		Transa Code (Instr.	5. Num of Deriv. Secum Acqu (A) or Dispo of (D) (Instr. and 5	ative rities ired osed	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of Title Shares		Der Sec (Ins	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)		

Explanation of Responses:

- 1. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a restricted stock unit (RSU) award agreement dated 12/18/2007. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/20/2007.
- 2. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a restricted stock unit (RSU) award agreement dated 12/16/2008. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/18/2008.
- 3. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a restricted stock unit (RSU) award agreement dated 12/16/2009. $Acquisition \ of the \ RSU \ was \ previously \ reported \ in \ Table \ I \ of \ reporting \ person's \ Form \ 4 \ on \ 12/18/2009.$
- 4. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik J. Lichter For: Gary

03/24/2010

** 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.