FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number:	3235-0287								
- 1	Estimated average	hurdon								

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

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 ARTHUR D					2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN]									(Check all ap Dire		olicable)		Issuer Owner (specify	
(Last) (First) (Middle) C/O CIENA CORPORATION 1201 WINTERSON ROAD					3. Date of Earliest Transaction (Month/Day/Year) 05/03/2010									Λ	belov			,	
(Street) LINTHICUM, MD 21090 (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X 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																			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Date		n Date,	Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				4 and Secu		cially 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)			(111341.4)
Common Stock 05/03/					/2010				S ⁽¹⁾		4,000		D \$18		.63	237,153 ⁽²⁾		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)	tive Conversion Date ty or Exercise (Month/Day/Year) if any		3A. Deeme Execution if any (Month/Da	Date, ay/Year)	Code (Instr.		ı of	rities ired osed . 3, 4	6. Date Expiration (Month/L	on Dat		7. Title and Amount of Securities Underlying Derivative Security (Inst and 4) Amount of Number of Number of Share		ount nber			9. Number of derivative Securities Beneficially Owned Following Reported Transactions (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 December 22, 2009.
- 2. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik J. Lichter For: Arthur D. Smith

05/04/2010

** 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.