FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	VAL							
OMB Number:	3235-0287							
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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(h)

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*							2. Issuer Name and Ticker or Trading Symbol									Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>SMITH ARTHUR D</u>							CIENA CORP [CIEN]									Direc		10%	Owner		
																	er (give title v)	Oth belo	er (specify w)		
(Last) (First) (Middle)							3. Date of Earliest Transaction (Month/Day/Year) 04/01/2010										,	ef Integratio	´		
C/O CIENA CORPORATION																					
1201 WINTERSON ROAD							If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable					
(0)					. 4. "	4. II Amendment, Date of Original Filed (Month/Day/Year)										individual or Joint/Group Filing (Check Applicable ne)					
(Street) LINTHICUM, MD 21090														X	Form filed by One Reporting Person						
					.											Form filed by More than One Reporting Person					
(City)	ity) (State) (Zip)																				
		Tab	le I - Noi	า-Deriv	ative	Sec	curitie	s Acc	quired,	Dis	posed o	f, o	r Ber	nefici	ally	Owne	ed				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					n/Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Code (Instr. 5		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			4 and Se Be Ov		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect			
				Code	v	Amount				(A) or (D)	Price	•	Repor Transa (Instr.	action(s) 3 and 4)		(instr. 4)					
Common Stock 04/01/							2010		S ⁽¹⁾		4,000		D	\$15.37		24	1,153 ⁽²⁾	D			
		Ta	able II - I								sed of, onvertib					vned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	Date, Transacti Code (Ins				6. Date E Expiratio (Month/E	n Dat		7. Title and Amount of Securities Underlying Derivative Security (Instrand 4)		J	Deri	ivative (urity (tr. 5) I	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nu of	ımber							

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

04/01/2010

** 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.