FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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	Check this box if no longer subject to
١	Section 16. Form 4 or Form 5
ı	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

1. Name and Address of Reporting Person*  SMITH ARTHUR D						2. Issuer Name and Ticker or Trading Symbol CIENA CORP [ CIEN ]									all app	olicable) ctor	g Person(s) to Issuer  10% Owner  Other (specify	
(Last) (First) (Middle) C/O CIENA CORPORATION 1201 WINTERSON ROAD					3. Date of Earliest Transaction (Month/Day/Year) 12/22/2009									belov	,	below ef Integration		
(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				
		Tab	le I - 1	Non-Deriv	<i>r</i> ative	Sec	uritie	s Ac	cquire	ed, Di	isposed o	f, or E	Benefici	ally (	Owne	ed		
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Ye					Execution Date,		· /	3. Transaction Code (Instr. 8)  4. Securities A Disposed Of (I					nd 5) Sec Ben Owi		ount of ities 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) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)			(iiisii. 4)
Common Stock 12/22/200					009	09			S		26,000	D	\$10.86	78 <sup>(1)</sup>	260,067(2)		D	
		Ta	able II							,	oosed of, convertib			•	/ned			
1. Title of Derivative Security (Instr. 3)	2. Conversio or Exercis Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execur) if any	eemed Ition Date, h/Day/Year)	4. Transa Code ( 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 urity	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 Exerc	cisable	Expiration Date	Title	or Number of Shares					

## **Explanation of Responses:**

- 1. Reflects the weighted average sales price with transactions in a range of sales prices from \$10.82 to \$10.91. Upon request by the SEC, full information regarding the number of shares sold at each separate sales price will be provided.
- 2. Shares reported include unvested Restricted Stock Units (RSUs).

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

12/23/2009

\*\* Signature of Reporting Person

Data

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.