## FORM 4

obligations may continue. See Instruction 1(b).

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

Washington, D.C. 20549
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Check this box if no longer subject to	STATEMENT OF CHANGES IN BENEFICIAL	OWNERSHIP
Section 16. Form 4 or Form 5		
obligations may continue Coo		

OMB APPRO	OVAL
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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 ]										tionship of Reportir all applicable) Director Officer (give title		g Person(s) to Issu 10% Owi Other (sp		wner
(Last) (First) (Middle) C/O CIENA CORPORATION 1201 WINTERSON ROAD						3. Date of Earliest Transaction (Month/Day/Year) 12/16/2009									X	belov			below)	
(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					
		Tabl	e I - No	n-Deriv	ative	Se	curitie	s Ac	quired	, Dis	posed o	f, or	Bene	efici	ally	Owne	ed			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)						ay/Year) Exe		A. Deemed xecution Date, any Month/Day/Year)		3. Transaction Code (Instr. 8)					4 and S		Securities Beneficially Owned Following Reported		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	•	Transa (Instr.	Transaction(s) (Instr. 3 and 4)					
Common Stock 12/16/2							2009		A		60,000	) <sup>(1)</sup> A		\$	\$0 30		0,443(2)	D		
		Та									osed of, onvertib				y Ov	vned				
1. Title of Derivative Security (Instr. 3)  2. Conversion of Exercise Price of Derivative Security  3. Transaction Date (Month/Day/Year) (Month/Day/Year) (Month/Day/Year)			n Date,		ransaction of Deriv Sect. Acqu (A) o Disp of (D) (Inst and		r osed ) :. 3, 4	6. Date   Expirati (Month/IIII	on Dai		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amour or Numbe of		ount nber	ıt r		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owner Form: Direct or Ind (I) (Ins	(D) rect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

## **Explanation of Responses:**

1. Reflects Restricted Stock Units (RSUs) that vest over four years, with one-sixteenth of the grant amount vesting on March 20, June 20, September 20, and December 20 of each year, commencing on March 20, 2010.

2. Shares reported include unvested Restricted Stock Units (RSUs).

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

12/17/2009

\*\* 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.