SEC Form 4	
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## 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

Section 16(a) of the Securities Exchange . . . . . . .

#### OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response: 0.5

Instruction 1(b).			or Section 30(h) of the Investment Company Act of 19	034	<u> </u>	
1. Name and Address of Reporting Person <sup>*</sup> SMITH ARTHUR D			2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>CIENA CORP</u> [ CIEN ]		ationship of Reporting Po < all applicable) Director Officer (give title	erson(s) to Issuer 10% Owner Other (specify
(Last) C/O CIENA CC 1201 WINTERS		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 02/01/2010  4. If Amendment, Date of Original Filed (Month/Day/Year)		below) Sr. VP, Chief In vidual or Joint/Group Fili	
(Street) LINTHICUM, (City)	MD (State)	21090 (Zip)	4. Il Amenument, Date of Original Flied (Montul/Day/real)	Line)	Form filed by One Re Form filed by More th Person	eporting Person

### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)						5. Amount of 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	Transaction(s) (Instr. 3 and 4)		(1130.4)
Common Stock	02/01/2010		<b>S</b> <sup>(1)</sup>		4,000	D	\$12.82	256,067 <sup>(2)</sup>	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. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		5. Nu of Deriv Secu Acqu (A) or Dispo of (D) (Instr and 5	ative rities ired osed . 3, 4	6. Date Exerc Expiration Da (Month/Day/Y	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

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 02/01/2010

\*\* Signature of Reporting Person Date

D. Smith

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.