FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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* Aquino Michael Gerald						2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN]								(Chec	k all app Dired	olicable)	10%	Person(s) to Issuer 10% Owner Other (specify	
	(Fi NA CORPO NTERSON	PRATION				3. Date of Earliest Transaction (Month/Day/Year) 12/21/2009							Х	belov	N)	below) Field Operations			
(Street) LINTHIC (City)			21090 (Zip)		. 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indi Line) X	Forn Forn	al or Joint/Group Filing (Check Applicable 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. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a			5. Am Secur Benet Owne		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount	(A) o (D)	r Pric	e		action(s) 3 and 4)		(Instr. 4)	
Common Stock 12					2009				S		11,600	D	\$10	10.7997		27,488	D		
Common Stock 12/2				12/21/2	2009				S		16,774	D	\$1	\$10.79		10,714	D		
Common Stock 12/22/				12/22/2	2009	009					18,600	D	\$10	\$10.8103		92,114	D		
Common Stock 12/22/2					2009				S	s 3,996 D		\$1	L 0.79	9 188,118(1)		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)	e Conversion or Exercise Price of Derivative Security Execution Date, if any (Month/Day/Year) (Month/Day/Year)		4. Transa Code (8)		nstr. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year) Date Exercisable Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Instr.: and 4) Amount or Number of Title Shares		Der Sec (Ins	Price of ivative urity str. 5)	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)				

Explanation of Responses:

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

By: Erik J. Lichter For: 12/23/2009 Michael G. Aquino

** 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.