

Aquino Michael Gerald  
 Form 4/A  
 December 29, 2009

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549

OMB APPROVAL

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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 Aquino Michael Gerald

(Last) (First) (Middle)

C/O CIENA CORPORATION, 1201 WINTERSON ROAD

(Street)

LINTHICUM,, MD 21090

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
 CIENA CORP [CIEN]

3. Date of Earliest Transaction (Month/Day/Year)  
 12/21/2009

4. If Amendment, Date Original Filed(Month/Day/Year)  
 12/23/2009

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
 SR VP. Global Field Operations

6. Individual or Joint/Group Filing(Check Applicable Line)  
 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, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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		
Common Stock	12/21/2009		S		3,296 (1) \$ 10.9104	D	
Common Stock	12/21/2009		S		290 (2) \$ 10.9105	D	
Common Stock	12/21/2009		S		3,955 (3) \$ 10.9105	D	
Common Stock	12/21/2009		S		3,571 (4) \$ 10.9104	D	
					207,418 (5)	D	
					207,128	D	
					203,173	D	
					199,602 (5)	D	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.



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- Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related
- (4) to a restricted stock unit (RSU) award agreement dated 12/16/2008. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/18/2008.
  - (5) Does not reflect subsequent transactions that occurred on 12/22/2009 that were previously reported on the original form 4 dated 12/23/2009. Shares reported include unvested RSUs.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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