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)
Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL

OND NUTIDEL.	3235-0207
Estimated average bur	den
hours per response:	0.5

1. Name and Addres Aquino Mich	ss of Reporting Perso <mark>ael Gerald</mark>	n*	2. Issuer Name and Ticker or Trading Symbol <u>CIENA CORP</u> [CIEN]	(Check	tionship of Reporting Pe all applicable) Director Officer (give title	erson(s) to Issuer 10% Owner Other (specify
C/O CIENA CORPORATION 1201 WINTERSON ROAD (Street)		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 05/01/2010		below) SR VP. Global Fiel	below)
		21090 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	ridual or Joint/Group Filir Form filed by One Re Form filed by More the Person	porting 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 Brice			Transaction(s) (Instr. 3 and 4)		,
Common Stock	05/01/2010		F		218(1)	D	\$18.53	171,592 ⁽²⁾	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)				Transaction of Code (Instr. 8) 8) Sec (A) Dis of ((Instr. 1000) (A) Dis		ative rities ired osed . 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title Amour Securi Underl Deriva Securi and 4)	nt of ties ying tive ty (Instr. 3	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 Expiration Exercisable Date		Title	Amount or Number of Shares						

Explanation of Responses:

1. Shares reported represent the amount forfeited to cover the tax liabilities of the reporting person pursuant to a restricted stock unit (RSU) award agreement dated June 1, 2006. The RSU vests at the end of Ciena's fiscal quarters over a four year term and shares are issued net of taxes upon vesting. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 filed on June 8, 2006. 2. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik J. Lichter For:	
<u>Michael G. Aquino</u>	

05/04/2010

** 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.