FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

ngton, D.C. 20549	OMB APPROVAL

3235-0287				
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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*  Rowny Michael J						2. Issuer Name and Ticker or Trading Symbol CIENA CORP [ CIEN ]											p of Reporting Person(s) to Is olicable) ctor 10% C			
(Last) (First) (Middle) C/O CIENA CORPORATION					3. Date of Earliest Transaction (Month/Day/Year) 04/14/2010										Office	icer (give title ow)		Other (specify below)		
1201 WINTERSON ROAD  (Street)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person					
LINTHIC	CUM, M	ID 2	21090													Form filed by More than One Reporting Person				
(City)	(S	tate) (	Zip)																	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Transa Date (Month/Date)						ar) E	Execution f any	Deemed ecution Date, ny onth/Day/Year)				ties Acquired (A) I Of (D) (Instr. 3, 4			4 and Sec Ben		cially I Following	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	e	Transaction(s) (Instr. 3 and 4)				(11341. 4)
Common Stock 0-					04/14/2010				A		6,344	1)	A	\$0		32,250(2)			D	
		Та									sed of, onvertib					vned				
1. Title of Derivative Security (Instr. 3)	rivative Conversion Date Execution Date curity or Exercise (Month/Day/Year) if any				Code (Instr.		of		Expiration	5. Date Exercisable and Expiration Date Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			vative urity r. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ov Fo Dii or (I)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	(A)		Date Exercisal		Expiration Date	Title	of									

## Explanation of Responses:

- 1. Restricted stock unit vests in three equal installments on the one , two and three-year anniversaries of the grant date.
- 2. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik J. Lichter For:
Michael J. Rowny

\*\* 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.