FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL							
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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 Rothenstein David M (Last) (First) C/O CIENA CORPORATION 1201 WINTERSON ROAD (Street) LINTHICUM, MD (City) (State)	(Middle)		2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN] 3. Date of Earliest Transaction (Month/Day/Year) 06/22/2010 4. If Amendment, Date of Original Filed (Month/Day/Year)								S. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) below) Sr. VP, General Counsel 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		on-Deriv	 ative	Seci	ıritie	s Ac	guirec	d. Di	sposed o	f. or R	enefi	cially	Owne	ed		
1. Title of Security (Instr. 3)		2. Transac Date (Month/Da	saction 2A. Exe /Day/Year) if ar		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a		or 5. An and 5) Secu Bene Own		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) or (D)	Price	•	Repor Trans (Instr.	ted action(s) 3 and 4)		(Instr. 4)
Common Stock		06/22/2	2010				S		168(1)	D	\$14	4.381	1	41,094	D	
Common Stock		06/22/20		10		S		2,586 ⁽²⁾	D	\$14	.3806	1	38,508	D		
Common Stock		06/22/20		10			S		1,035(3)	D	\$14	.3806	1	37,473	D	
Common Stock		06/22/2	2010				S		225(4)	D	\$14	.3804	1	37,248	D	
Common Stock	on Stock 06/22/2		010)10		S		217 ⁽⁵⁾	D	\$14	\$14.3807		7,031 ⁽⁶⁾	D		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																
2. Conversion or Exercise nstr. 3) 2. Conversion or Exercise (Month/Day/Year) Price of Derivative Security 3. Transaction Date (Execution Date (Month/Day/Year) 34. Deemed Execution Date (Month/Day/Year) 35. Transaction Date (Execution Date (Month/Day/Year) 36. Deemed Execution Date (Month/Day/Year)		on Date,	4. Transa Code (I 8)			6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Deri Sec (Inst	erivative ecurity	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)	
Evalenation of Degrapases			Code	v	(A)	(D)	Exercis	sable	Date		Shares					

- 1. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a restricted stock unit (RSU) award agreement dated 12/18/2007. RSU was previously reported in Table I of reporting person's Form 3 on 11/4/08.
- 2. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related 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.
- 3. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a restricted stock unit (RSU) award agreement dated 12/16/2009. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/18/2009.
- 4. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a restricted stock unit (RSU) award agreement dated 12/18/2006. RSU was previously reported in Table I of reporting person's Form 3 on 11/4/08.
- 5. Shares reported represent an amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sales instruction related to a restricted stock unit (RSU) award agreement dated 10/28/2008. RSU was previously reported in Table I of reporting person's Form 3 on 11/4/08.
- 6. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik Lichter For: David M 06/24/2010 **Rothenstein**

** 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.