FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
hours per response:	0.5								

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

Name and Address of Reporting Person* Rothenstein David M Last) (First) (Middle C/O CIENA CORPORATION L201 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) 03/22/2010 4. If Amendment, Date of Original Filed (Month/Day/Year)									S. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director				
. , , , , , , , , , , , , , , , , , , ,	Non-Deriva	ative	Secu	rities	Acc	quirec	I, Dis	sposed o	f, or B	enefic	cially	Owne	ed		
Title of Security (Instr. 3)	2. Transacti Date (Month/Day	on	2A. Deemed Execution Date,		3. Transaction Code (Instr.		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			or 5. An and 5) Secu Bene 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) or (D)	Price	•	Repor Trans (Instr.	action(s) 3 and 4)		(Instr. 4)
Common Stock	03/22/20	2/2010				S		271(1)	D	\$14	.4726	1	45,505	D	
Common Stock	03/22/20	03/22/2010				S		202(2)	D	\$14	1.473	1	45,303	D	
Common Stock	03/22/20	3/22/2010				S		261 ⁽³⁾	D	\$14	.4724	1-	45,042	D	
Common Stock	03/22/20	/22/2010				S		2,727(4)	(4) D \$14		.4715	142,315		D	
Common Stock	03/22/2	03/22/2010				S		1,053(5)	D	\$14	\$14.4718		1,262 ⁽⁶⁾	D	
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)															
			stion Instr. 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		tive ties ed	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Deriv Secu (Insti	erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
		Code	v	(A) ((D)	Date Exercis	able	Expiration Date		of 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 12/18/2006. 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 12/18/2007. RSU was previously reported in Table I of reporting person's Form 3 on 11/4/08.
- 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 10/28/2008. RSU was previously reported in Table I of reporting person's Form 3 on 11/4/08.
- 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 12/16/2008. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/18/2008.
- 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 12/16/2009. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/18/2009.
- 6. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik J. Lichter For: David 03/24/2010 M. 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.

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