FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPRO	OVAL							
	OMB Number:	3235-0287							
l	Estimated average burden								
l	hours per response:	0.5							

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

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1. Name an		2. Issuer Name and Ticker or Trading Symbol CIENA CORP [ CIEN ]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)										
Rothenstein David M						CIENT COM [ CIEN ]										Direc		10%	Owner		
<del></del>																Office	er (give title	Othe belov	r (specify		
(Last) (First) (Middle)							3. Date of Earliest Transaction (Month/Day/Year) 12/21/2010										,	eral Counsel	′		
C/O CIENA CORPORATION						12/21/2010											,				
1201 WINTERSON ROAD																					
						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street)															X Form filed by One Reporting Person						
LINTHICUM, MD 21090															Form filed by More than One Reporting						
(City)	(S	tate)	(Zip)													Pers	on				
		Tal	ole I - N	on-Deriv	ative	Sec	uritie	s Ac	quired	l, Di	sposed o	f, or	Ben	efici	ally	Owne	ed				
1. Title of Security (Instr. 3)  2. Transacti Date (Month/Day)						Execution Date,		Oate,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4 a				nd 5) Secur Bene Owne		icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
							Code	v	Amount	(A) (D)	(A) or (D) Price			Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)				
Common	Stock	12/21/2010					S		665(1)	I	D :	\$20.9707		18	86,776	D					
Common	12/21/2	12/21/2010				S		1,036(2)	I	D :	\$20.9707		18	85,740	D						
Common Stock 12/2						2010					225(3)	I	D :	\$20.9717		185,515		D			
Common Stock 12/21/2						.010					2,588(4)	I	D :	\$20.9716		182,927		D			
Common Stock 12/21/2						010			S		168 <sup>(5)</sup>	I	D :	\$20.9718		182,759		D			
Common Stock 12/21					2010				S		217 <sup>(6)</sup> D		D :	\$20.9	20.9708 1		2,542 <sup>(7)</sup>	D			
		7	able II								osed of,					vned					
4 7711 6		la =	Ta. 5	· • · ·		alis,			•		convertib				1				T44 N .		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year	) if any	emed ion Date, /Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerc Expiration Da (Month/Day/\)		ate	7. Title and Amount of Securities Underlying Derivative Security (Ins and 4)		I nstr. 3	Deriv Secu	rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
	Cc		Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Amou or Numb of Title Share		mber									

## Explanation of Responses:

- 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 7/28/2010. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 08/18/2010.
- 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 12/16/2009. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/18/2009.
- 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 12/18/2006. 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 12/18/2007. RSU was previously reported in Table I of reporting person's Form 3 on 11/4/08.
- 6. 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.
- 7. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik Lichter For: David M Rothenstein

12/23/2010

\*\* 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.