## 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
nstruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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 an		2. Issuer Name and Ticker or Trading Symbol CIENA CORP [ CIEN ]								(Check all app		olicable) ctor		Owner					
(Last) (First) (Middle) C/O CIENA CORPORATION 1201 WINTERSON ROAD							3. Date of Earliest Transaction (Month/Day/Year) 12/21/2010								X	belov	,	Other (specify below)  chnology Officer	
(Street) LINTHICUM, MD 21090  (City) (State) (Zip)					_   4. II	Line) X Form filed by										n filed by One n filed by Mor	roup Filing (Check Applicable One Reporting Person More than One Reporting		
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date					Date	2. Transaction Date Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a			and 5) Secur Benef Owne		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			ted action(s) 3 and 4)		(Instr. 4)				
Common Stock 12/21/2							)10			S		7,445(1)	D	\$20.	\$20.9708		08,096	D	
Common Stock 12/21/2						2010				S		9,306(2)	D	\$20.	20.9707		98,790	D	
Common Stock 12/21/20										S		1,675 <sup>(3)</sup>	D	\$20.	20.9707		97,115	D	
Common Stock 12/21/20						2010	010			S		447(4)	D	\$20.	\$20.9709		6,668 <sup>(5)</sup>	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)	ve Conversion Date Execution or Exercise (Month/Day/Year) if any		med on 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/Y		ite	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amount or Numbe of Title Shares		Deri Secu (Inst		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)		

- 1. Shares reported reflect the amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sale instruction related to a Performance-Accelerated Restricted Stock Unit (PARSU) award agreement dated December 18, 2006. Acquisition of the PARSU was previously reported in Table I of reporting person's Form 4 on December 19, 2006.
- 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 12/18/2007. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/20/2007.
- 5. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik Lichter For: Stephen **B** Alexander

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.