## FORM 4

obligations may continue. See

Instruction 1(b)

Check this box if no longer subject to Section 16. Form 4 or Form 5

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	VAL							
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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

1. Name an		2. Issuer Name and Ticker or Trading Symbol CIENA CORP [ CIEN ]									eck all ap Dire V Offic	olicable) ctor er (give title	g Person(s) to Issuer  10% Owner Other (specify						
	Last) (First) (Middle) C/O CIENA CORPORATION L201 WINTERSON ROAD					3. Date of Earliest Transaction (Month/Day/Year) 03/22/2010									beio	w) ficer			
(Street) LINTHIC	Street) LINTHICUM, MD 21090					4. If Amendment, Date of Original Filed (Month/Day/Year)									e) <mark>X</mark> Forr Forr	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Transacti Date (Month/Day						Execution Date,		Date,	3. Transa Code ( 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a				Secui Bene	ficially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect	
								Code	v	Amount	(A) (D)	or Pi	ice	Trans	action(s) 3 and 4)		(11311.4)		
Common	Stock	2010	)10			S		271(1)	D \$14		14.471	160,667		D					
Common Stock 03/22/20						010		S		3,999(2)	Г	\$	14.472	21 1	156,668				
Common Stock 03/22/20						:010			S		1,440(3)	D \$14.4		14.472	4723 155,228 <sup>(4)</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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, Trar			ction Instr.	5. Nu of Deriv Secu Acqu (A) or Dispo of (D) (Instr and 5	ative rities ired osed	6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amoun or Number of Title Shares		unt ber	. Price of Perivative Pecurity Pecurity Pecurity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D or Indirec (I) (Instr.	Beneficial Ownership t (Instr. 4)	

## **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 12/18/2007. RSU was previously reported in Table I of reporting person's Form 3 on 12/17/09.
- 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 3 on 12/17/2009.
- 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 12/16/2009.  $Acquisition \ of the \ RSU \ was \ previously \ reported \ in \ Table \ I \ of \ reporting \ person's \ Form \ 4 \ on \ 12/18/2009.$
- 4. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik J. Lichter For: James

03/24/2010

A. Frodsham

\*\* 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.