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
Instruction 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 and Address of Reporting Person* MOYLAN JAMES E JR					<u>CI</u>	2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN]									k all app Dired	olicable) ctor er (give title		Owner er (specify	
(Last) (First) (Middle) C/O CIENA CORPORATION 1201 WINTERSON ROAD					3. Date of Earliest Transaction (Month/Day/Year) 03/22/2010											SVP Finance, CFO			
(Street) LINTHIC			21090 Zip)		_ 4. If	Amen	dment,	Date o	of Original Filed (Month/Day/Year)						Forn	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	e I - N	on-Deriv	ative/	Sec	uritie	s Ac	quire	d, Di	sposed o	f, or	Bene	ficially	Own	ed			
			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				Secur	icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	Amount	(A) (D)	or Pri	ce	Trans	action(s) 3 and 4)		(,					
Common Stock					2010				S		908(1)	D	\$1	4.4715	2	72,711	D		
Common Stock 03/22					2010)10			S		5,850 ⁽²⁾	D	\$1	4.4724	2	66,861	D		
Common Stock 03/22/					2010				S 1,4		1,492(3)	D	\$	\$14.472		265,369 ⁽⁴⁾			
		Та	ble II								osed of, convertib				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, Transaction		Instr.	5. Numof Deriv. Securi Acqui (A) or Disport of (D) (Instr. and 5	ative rities ired osed . 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date		expiration	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Number of		De Se (In:	Price of 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	Beneficial Ownership (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. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/20/2007.
- 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 include unvested Restricted Stock Units (RSUs).

By: Erik J. Lichter For: James E. Moylan, Jr.

03/24/2010

** 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.