FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT (OF CHAN	IGES IN BEN	NEFICIAL ON	NNERSHIP

l	OMB APPRO	OVAL
	OMB Number:	3235-0287
l	Estimated average burd	en
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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

1. Name and Address of Reporting Person* OBRIEN JUDITH M						2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN]											pip of Reporting Person(s) to Issuplicable)				
(Last) (First) (Middle) C/O CIENA CORPORATION					3. Date of Earliest Transaction (Month/Day/Year) 04/14/2010										Offic belov	er (give title w)	e Other (spe below)				
1201 WINTERSON ROAD					4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) LINTHICUM, MD 21090													X Form filed by One Reporting Person Form filed by More than One Reporting Person								
(City)	(St	ate) (Zip)																		
		Tabl	e I - Nor	n-Deriv	ative	Se	curitie	s Ac	quire	l, Di	sposed	of, o	or Ben	efici	ally	Owne	ed				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execut Day/Year) if any		A. Deemed kecution Date, any lonth/Day/Year)					ties Acquired (A) I Of (D) (Instr. 3,		4 and Secu		cially I Following	Form: Di (D) or In	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Cod	e v	Amoun	t	(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)				(
Common Stock 04/14					4/2010						6,34	4 ⁽¹⁾	A \$		33,981 ⁽²⁾		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)	ivative curity Conversion or Exercise Price of Derivative Security Date (Month/Day/Year) Execution Date, (if any (Month/Day/Year) 8)		4. Transa Code (8)				Expirat (Month	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Date		Ar Se Ur De Se an	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amount of Numbe of Shares				9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Own Forn Direc or In (I) (Ir		11. Nature of Indirect Beneficial Ownership (Instr. 4)			

Explanation of Responses:

- 1. Restricted stock unit vests in three equal installments on the one , two and three-year anniversaries of the grant date.
- 2. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik J. Lichter For: Judith M. O'Brien

04/16/2010

** 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.