Instruction 1(b)

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to	STATEME
Section 16. Form 4 or Form 5	
obligations may continue. See	

NT 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* STEVENSON RUSSELL B JR						2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN]								(Ch	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner V Officer (give title Other (specify				
(Last) (First) (Middle) C/O CIENA CORPORATION 1201 WINTERSON ROAD					3. Date of Earliest Transaction (Month/Day/Year) 06/14/2007									X Office (give title below) Criff (spe below) SR. VP, GENERAL COUNSEL					
(Street)			21090		4. If	f Ame	mendment, Date of Original Filed (Month/Day/Year)							Line	dividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(S	tate)	(Zip)																
		Tab	le I - No	n-Deriv	ative	e Se	curit	ies Ac	quired	l, Dis	sposed o	of, or	Bene	ficiall	y Owned				
Da			Date	2. Transaction Date Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Code	Transaction Code (Instr.					5. Amou Securitie Beneficia Owned F Reported	es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
										v	Amount	Amount (/		Price	Transact (Instr. 3			ion(s)	(Instr. 4)
Common Stock			06/14	/2007	7			М		35,71	714 A S		\$31.7	1 53,	092		D		
Common Stock				06/14	/14/2007				M		17,85	57	A	\$19.9	5 70,	949		D	
Common Stock				06/14/2007		7			S ⁽¹⁾		400		D	\$35.0	1 70,	70,549		D	
Common Stock			06/14	6/14/2007				S ⁽¹⁾		53,17	'1	D	\$35	17,	7,378		D		
Common Stock 06			06/14	/2007	/2007			S		2,219	9	D	\$35	15,	,159		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)	Conversion Date Execution Date, or Exercise (Month/Day/Year) if any		l. Transac Code (li		n of E		6. Date Exercisa Expiration Date (Month/Day/Yea		of Securiti		curities lying ative Se	curity	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				c	Code	v	(A)	(D)	Date Exercis		Expiration Date	Title	or No of	umber					
Non- Qualified Stock Option (right to buy)	\$19.95	06/14/2007			М			17,857	(2)		12/10/2014	Comm		7,857	\$0	0		D	
Non- Qualified Stock Option (right to buy)	\$31.71	06/14/2007			М			35,714	(2)		11/19/2012	Comm		5,714	\$0	0		D	

Explanation of Responses:

- 1. Sales were effected pursuant to Rule 10b5-1 trading plan dated June 7, 2007.
- 2. Option is fully vested. On October 26, 2005, the Board of Directors accelerated the vesting of Ciena's then unvested, "out-of-the-money" stock options.

By: Erik Lichter For: Russell B. 06/15/2007 Stevenson, Jr.

** 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.