#### FORM 4

### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

	Washington	i, D.C. 20549	
<b>STATEMENT</b>	OF CHANGES	IN BENEFICIAL	<b>OWNERSHIP</b>

OMB A	PPROVAL
OMB Number:	3235-028

37 Estimated average burden hours per response: 0.5

## 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 7								
		Reporting Person*	R						ker or Tra		Symbol				Check al		able)	g Person(s) to	Issuer Owner
,					2.5										v (	Officer (give title below)			r (specify
(Last) (First) (Middle) C/O CIENA CORPORATION 1201 WINTERSON ROAD					3. Date of Earliest Transaction (Month/Day/Year) 04/29/2006									Sr.V.P., General Counsel & Sec					
1201 WII	NIERSON	ROAD			4. If	Ame	endment	, Date c	of Origina	l Filed	(Month/Da	ay/Ye	ar)			ıal or Jo	oint/Group	Filing (Check	Applicable
(Street) LINTHIC	CUM M	ID 2	21090														•	Reporting Pe	
(City)	(S	tate) (	Zip)													Person	ed by Mon	e than One Re	porting
		Tabl	e I - No	n-Deriva	ative	Se	curitie	es Aco	quired,	Dis	posed o	f, o	r Ben	efici	ally O	vned			
1. Title of Security (Instr. 3)  2. Transa Date (Month/D			Executi ay/Year) if any		Executio if any	A. Deemed execution Date, any month/Day/Year)		Transaction Disposed Of ( Code (Instr. 5)			es Acquired (A) Of (D) (Instr. 3, 4		and Secur Benef Owne			6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount		(A) or (D)	Price	, ∣ти	eported ansactio istr. 3 an			(Instr. 4)
Common	ommon Stock 04/			04/29	/2006				A		3,302(	1)	A	\$	0	108,930		D	
Common	nmon Stock 04/29			2006		F		1,698 <sup>(2)</sup> D \$		\$4.	09	107,232		D					
		Та									sed of, onvertib				y Owr	ed			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date if any (Month/Day/Ye	n Date,	Code (Ins				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		ount	8. Price Derivat Securit (Instr. !	y See ) Be Ow Fol Re Tra	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration	Title	of						

### **Explanation of Responses:**

- 1. Shares reported as acquired were previously reported in Table I of reporting person's Form 4 filed on November 3, 2005. The amount reported as acquired represents shares that vested on April 29, 2006 and that were not forfeited to cover tax liabilities of the grantee pursuant to the award grant. Represents the second of 16 quarterly vesting dates.
- 2. Shares reported represent the amount forfeited to cover the tax liabilities of the grantee pursuant to the award agreement.

/s/Russell B. Stevenson, Jr. by 05/01/2006 Anita Weiskerger per POA

\*\* 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.