FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average b	ourden							

0.5

hours per response:

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's ALEXANDER STEPHEN B  (Last) (First) (Middle) (CIENA CORP [ cien ]								. ,														
Common Stock   Conversion Security (Instr. 3)   Conversion Security (Instr. 4)   Common Stock   Conversion Security (Instr. 3)   Conversion Security (Instr. 4)   Conversion Security (Instr. 3)   Conversion Security (Instr. 4)   Conversion Security (Instr. 4)   Conversion Security (Instr. 3)   Conversion Security (Instr. 3)   Conversion Security (Instr. 4)   Conversion Security (Instr. 3)   Conversion Security (Instr. 3)   Conversion Security (Instr. 4)   Conversion Security (Instr. 3)   Conversion Security (Instr. 4)   Conversion Security (Instr. 3)   Conversion Security (Instr. 4)   Conversion Security (Instr. 5)   Conversion Security (Instr. 4)   Conversion Security (Instr. 4)   Conversion Security (Instr. 5)   Conversion Security (Instr. 4)   Conversion Security (Instr. 4)   Conversion Security (Instr. 5)   Conversion Security (Instr. 4)   Conversion Security (Instr. 4)   Conversion Security (Instr. 4)   Conversion Security (Instr. 5)   Conversion Security (Instr. 4)   Conversion Security (Instr. 5)   Conversion Security (Instr. 4)   Conversion Security (Instr. 4)   Conversion Security (Instr. 5)   Conversion Security (Instr. 4)   C						ů ,																
(Last) (First) (Middle) (Middle) (Middle) (Middle) (729/2006 Sr.V.P., Chief Tech. Officer Sr.V.P., Chie	<u>ALEXANDER STEPHEN B</u>				1	CILITI COIL [ CIEII ]										Direc	ctor		10% C	wner		
(City) (State) (Zip)  Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned  1. Title of Security (Instr. 3)  Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (Genstr.)  (Common Stock 07/29/2006																						
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(Street) LINTHICUM MD 21090  Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned  1. Title of Security (Instr. 3)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  2A. Deemed Execution Date, if any (Month/Day/Year) (Month/Day/Year)  (Code   V   Amount   (A) or Derivative Securities	C/O CIENA CORPORATION					0//29/2006									Sr. v.P., Chief Tech. Officer							
(Street) LINTHICUM MD 21090  Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned  1. Title of Security (Instr. 3)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  2A. Deemed Execution Date, first any (Month/Day/Year) (Month/Day/Year)  (Code   V   Amount   (A) or (Instr. 3) (Instr. 3) (Instr. 3) (Instr. 3)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  2A. Deemed Execution Date, first any (Month/Day/Year) (Instr. 3) (Instr. 3) (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired, Disposed of (Instr. 4)  Table II - Derivative Securities Acquired (A) or Price of Derivativ	1201 7471	NTEDCON	IDOAD			1																
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City	,					4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)															
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Date Expiration of Code V (A) (D) Exercisable Date Title Shares					- 1,	Code	v	<sub>(A)</sub>					Title	Of Sha	rec							

## **Explanation of Responses:**

1. Shares reported represent the amount forfeited to cover the tax liabilities of the reporting person pursuant to a restricted stock unit (RSU) award agreement. The RSU vests at the end of Ciena's fiscal quarters over a four year term and shares are issued net of taxes upon vesting. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 filed on November 3, 2005.

/s/Stephen B. Alexander by Anita Weiskerger per POA

07/31/2006

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.