FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
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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

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1. Name and Address of Reporting Person* FRODSHAM JAMES		2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN]						5. Relationship of Repo (Check all applicable) Director			10% (Owner			
(Last) (First) (Middle) C/O CIENA CORPORATION 1201 WINTERSON ROAD			3. Date of Earliest Transaction (Month/Day/Year) 03/22/2011						X	belov	*	Other (specify below) Strategy Officer			
(Street) LINTHICUM, MD 21090 (City) (State) (Zip)	4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Indi Line) X	,						
Table I - N	on-Deriv	ative	Secu	ırities	Aco	quirec	l, Di	sposed o	f, or l	3enef	icially	Owne	ed		
1. Title of Security (Instr. 3)	Date	Date Exec (Month/Day/Year) if an		2A. Deemed Execution Date, if any (Month/Day/Year)					Securities Acquired (A) or isposed Of (D) (Instr. 3, 4 a		and 5) Secur Benef Owne		icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
						Code	v	Amount	(A) (D)	Prie	e	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)
Common Stock	03/22/2	2011 03		3/24/2011		S		259(1)	D	\$2	3.4288	19	92,713	D	
Common Stock	03/22/2	2011 03		3/24/2011		S		883(2)	D	\$2	23.428	19	91,830	D	
Common Stock	03/22/2	011	011 03/24/2011		11	S		3,819(3)	D	\$2	\$23.4292		88,011	D	
Common Stock	03/22/2	011	011 03/24/2011		S		1,375(4)	D	\$2	\$23.4304		86,636	D		
Common Stock	011	011 03/24/2011		S		1,456 ⁽⁵⁾	D	\$2	23.428	18	5,180 ⁽⁶⁾	D			
Table II	- Derivati (e.g., pu							osed of, convertib				wned			
Security or Exercise (Month/Day/Year) if any	ion Date,	4. Transaction Code (Instr. 8)		5. Number of		6. Date Exercise Expiration Date (Month/Day/Ye		ite	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Pi Deri Seci (Inst	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)
Evaluation of Decembers	Code V (A)		(A) ((D)	Date Exercis	sable	Expiration Date	Title	Amou or Numb of Share	er					

- 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. RSU was previously reported in Table I of reporting person's Form 3 on 12/17/09.
- 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 7/28/2010. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 08/18/2010.
- 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 12/16/2008. Acquisition of the RSU was previously reported in Table I of reporting person's Form 3 on 12/17/2009.
- 4. 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.
- 5. 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 12/14/2010. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/16/2010.
- 6. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik Lichter For: James A. 03/28/2011 **Frodsham**

** Signature of Reporting Person

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.