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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to	•
	'
Section 16. Form 4 or Form 5	
obligations may continue. See	
Instruction 1(b).	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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l	Estimated average burde	en	
l	hours per response:		0.5

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1. Name and Addres PETRIK ANI	ss of Reporting Perso DREW C	n*	2. Issuer Name and Ticker or Trading Symbol <u>CIENA CORP</u> [CIEN]		tionship of Reporting Per all applicable) Director	rson(s) to Issuer 10% Owner	
(Last) (First) (Middle) C/O CIENA CORPORATION 1201 WINTERSON ROAD				X	Officer (give title below)	Other (specify below)	
		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 12/20/2009		VP, CONTRO	,	
			4. If Amendment, Date of Original Filed (Month/Day/Year)		vidual or Joint/Group Filin	g (Check Applicable	
(Street) LINTHICUM,	MD	21090		Line) X	Form filed by One Rep Form filed by More tha Person	0	
(City)	(State)	(Zip)					

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year) 2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			on Disposed Of (D) (Instr. 3, 4 and 5) tr.		5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)		
Common Stock	12/20/2009		S		131(1)	D	\$10.9111	92,376	D			
Common Stock	12/21/2009		S		325 ⁽²⁾	D	\$10.9114	92,051	D			
Common Stock	12/21/2009		S		1,610 ⁽³⁾	D	\$10.9112	90,441	D			
Common Stock	12/21/2009		S		1,437(4)	D	\$10.911	89,004 ⁽⁵⁾	D			

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	(e.g., puts, cars, warants, opnors, convertible securities)														
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/Year)	4. Transa Code (8)		5. Number of		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownership Form: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

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. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/20/2007.

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 12/18/2006. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/19/06.

3. Shares reported reflect the amount sold to cover the tax liabilities of the reporting person pursuant to a 10b5-1 sale instruction related to a Performance-Accelerated Restricted Stock Unit (PARSU) award agreement dated December 18, 2007. Acquisition of the PARSU was previously reported in Table I of reporting person's Form 4 on December 20, 2007.

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 12/16/2008. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/18/2008.

5. Shares reported include unvested Restricted Stock Units (RSUs).

<u>By: Erik J. Lichter For:</u> <u>Andrew C. Petrik</u>

12/23/2009

Date

** 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.