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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

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									

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Estimated average burde	en	
hours per response:		0.5

1. Nume and Address of Reporting reison			2. Issuer Name and Ticker or Trading Symbol <u>CIENA CORP</u> [CIEN]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
<u>SWITTI OAR</u>	<u>1 D</u>			X	Director	10% Owner		
	/ : .			X	Officer (give title below)	Other (specify below)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 05/03/2010		· · · /	,		
C/O CIENA CO	RPORATION		03/03/2010		PRESIDENT, C	EO		
1201 WINTERS	ON ROAD							
<u>.</u>			4. If Amendment, Date of Original Filed (Month/Day/Year)		idual or Joint/Group Filing (Check Applicable		
(Street)				Line)				
LINTHICUM,	MD	21090		X	Form filed by One Report	ting Person		
					Form filed by More than C	One Reporting		
(City)	(State)	(Zip)			Person			

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

			•	-	-		-			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da		2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	05/03/2010		S ⁽¹⁾		6,250	D	\$19.137(2)	648,123 ⁽³⁾	D	

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

1. Title of 2. 3. Transaction 3A. Deemed 4. 5. Number															
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. Nu of Deriv Secu Acqu (A) or Dispo of (D) (Instr and 5	ative rities ired osed	6. Date Exerc Expiration Da (Month/Day/Y	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)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	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. Sales were effected pursuant to Rule 10b5-1 trading plan dated December 30, 2009.

2. Reflects the weighted average sales price with transactions in a range of sales prices from \$18.77 to \$19.43. Upon request by the SEC, full information regarding the number of shares sold at each separate sales price will be provided.

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

By: Erik J. Lichter For: Gary

B. Smith

05/04/2010

** 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.