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
nstruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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

Name and Address of Reporting Person*							2. Issuer Name and Ticker or Trading Symbol CIENA CORP [CIEN]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>SMITH GARY B</u>							CILITI COIL [CIEIV]									X Director		10% (Owner	
(Last) (First) (Middle)							Date of Earliest Transaction (Month/Day/Year)								X Office below		er (give title v)	Other below	(specify)	
C/O CIEI	NA COF	RPO	RATION			06/	06/22/2010								PRESIDENT, CEO					
1201 WINTERSON ROAD																				
								If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable				
(Street)							4. II Americinent, Date of Original Filed (Month/Day/Year)								Line)					
LINTHIC	CUM,	MΓ) 2	21090											X	Form	Form filed by One Reporting Person			
						.									Form filed by More than One Reporti				orting	
(City)		(Sta	te) (Zip)											Person					
			Tabl	e I - N	on-Deriv	ative	Sec	uritie	s Ac	quire	d, Di	sposed o	f, or B	enefic	ially	Owne	ed			
Date				2. Transac Date (Month/Da		Exec if any	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 an			Beneficially Owned Following		ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price			ted action(s) 3 and 4)		(Instr. 4)			
Common Stock 06/2						.010				S		17,250(1)	D	\$14.	.3806		12,123	D		
Common Stock 06/2					06/22/2	2010				S		4,240(2)	D	\$14.	.3806		07,883	D		
Common Stock 06/22/2						2010)10			S		3,794 ⁽³⁾	D	\$14.	3806	6	04,089	D		
Common	Stock				06/22/2	2010			s 496 ⁽⁴⁾ D \$14.3805 603,593 ⁽⁵⁾ D							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. Dee		4.						isable and	7. Title			ice of	9. Number o	f 10.	11. Nature	
Derivative Conversion Date Execut Security or Exercise (Month/Day/Year) if any					ion Date, Transa Code //Day/Year)				Expira (Month	tion D	ate	Amount of Securities Underlying Derivative Security (Instr. and 4)		Deriv Secu (Inst	ivative curity ctr. 5)	derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect Beneficial Ownership (Instr. 4)		
						Code	v	(A)	(D)	Date Exercisable		Expiration Date	Title	Amount or Number of Shares						

- 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 12/16/2008. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/18/2008.
- 2. 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.
- 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 12/16/2009. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/18/2009.
- 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 12/18/2007. Acquisition of the RSU was previously reported in Table I of reporting person's Form 4 on 12/20/2007.
- 5. Shares reported include unvested Restricted Stock Units (RSUs).

By: Erik Lichter For: Gary B Smith

06/24/2010

** 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.