

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

1. Name and Address of Reporting Person
 Sevin Rosen Fund IV, L.P.
 Two Galleria Tower
 13455 Noel Road, Suite 1670
 Dallas, TX 75240
2. Issuer Name and Ticker or Trading Symbol
 CIENA Corporation
 ("CIEN")
3. IRS or Social Security Number of Reporting Person (Voluntary)
4. Statement for Month/Year
 May 1997
5. If Amendment, Date of Original (Month/Year)
6. Relationship of Reporting Person(s) to Issuer (Check all applicable)
 () Director (X) 10% Owner () Officer (give title below) () Other
 (specify below)
7. Individual or Joint/Group Filing (Check Applicable Line)
 () Form filed by One Reporting Person
 () Form filed by More than One Reporting Person

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

1. Title of Security	2. Transaction Date	3. Transaction Code	4. Securities Acquired (A) or Disposed of (D)		5. Amount of Securities Beneficially Owned at End of Month	6. Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
			Amount	A/D			
Common Stock	5/27/97	J(1)	1,108,183	D	9,973,647	D	
Common Stock					42,375	I	By Sevin Rosen Bayless Mgmt Co. (2)
Common Stock	5/27/97	J(3)	71,429	D	642,856	I	By Sevin Rosen Fund V L.P. (2)

Table II -- Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Derivative Security	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date	4. Transaction Code	5. Number of Derivative Securities Acquired (A) or Disposed of (D)		6. Date Exercisable and Expiration Date	7. Title and Amount of Underlying Securities	8. Price of Derivative Security	9. Number of Derivative Securities	10. Direct (D) or Indirect (I)	11. Nature of Indirect Beneficial Ownership
				Amount	A/D						

Explanation of Responses:
 (1) Distribution by Reporting Person to its partners.
 (2) Sevin Rosen Fund IV L.P. is an affiliate of each of Sevin Rosen Bayless Management Co. and Sevin Rosen Fund V L.P. and may be deemed to beneficially own the shares held by these entities.
 (3) Distribution by Sevin Rosen Fund V L.P. to its partners.
 By: Sevin Rosen Fund IV, L.P.
 By: SRB Associates IV, L.P., its general partner
 By: /s/ John V. Jagers, General Partner Date: June 10, 1997
 John V. Jagers, General Partner
 SIGNATURE OF REPORTING PERSON
 See Signature on Last Page
 DATE
 June 10, 1997