

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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. Date of Event Requiring Statement (Month/Day/Year)
 February 7, 1997
3. IRS or Social Security Number of Reporting Person (Voluntary)
4. Issuer Name and Ticker or Trading Symbol
 CIENA Corporation
 ("CIEN")
5. Relationship of Reporting Person(s) to Issuer (Check all applicable)
 Director 10% Owner Officer (give title below) Other
 (specify below)
6. If Amendment, Date of Original (Month/Day/Year)
 February 5, 1997
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 Beneficially Owned

1. Title of Security	2. Amount of Securities Beneficially Owned	3. Ownership Form: Direct(D) or Indirect(I)	4. Nature of Indirect Beneficial Ownership
Common Stock	204,325	D	

Table II -- Derivative Securities Beneficially Owned

1. Title of Derivative Security	2. Date Exercisable and Expiration Date (Month/Day/Year)	3. Title and Amount of Underlying Securities	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct(D) or Indirect(I)	6. Nature of Indirect Beneficial Ownership
Series A Convertible Preferred Stock	(2) (2)	Common Stock	5,743,945	D	
Series B Convertible Preferred Stock	(2) (2)	Common Stock	3,704,990	D	
Series C Convertible Preferred Stock	(2) (2)	Common Stock	1,428,570	D	
Series C Convertible Preferred Stock	(2) (2)	Common Stock	714,285	I	By Sevin Rosen Fund V L.P. (1)

Explanation of Responses:
 (1) Sevin Rosen Fund IV L.P. is an affiliate of Sevin Rosen Fund V L.P. and may be deemed to beneficially own the shares held by such entity.
 (2) Upon the closing of the Issuer's initial public offering of its Common Stock, each issued and outstanding share of its convertible preferred stock will automatically convert into five shares of Common Stock.
 By: SEVIN ROSEN FUND IV L.P.
 By: SRB ASSOCIATES IV L.P., its general partner
 By: /s/ John V. Jagers
 John V. Jagers, General Partner
 SIGNATURE OF REPORTING PERSON
 See Signature on Last Page
 DATE
 October 10, 1997