



**SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

**FORM S-8**  
**REGISTRATION STATEMENT**  
**UNDER**  
**THE SECURITIES ACT OF 1933**

**CIENA Corporation**  
**(Exact name of registrant as specified in its charter)**

Delaware  
(State or other jurisdiction of  
incorporation or organization)

23-2725311

(I.R.S. Employer Identification No.)

1201 Winterson Road  
Linthicum, Maryland 21090  
(410) 865-8500

(Address, including zip code, and telephone number,  
including area code, of registrant's principal executive offices)

ONI Systems Corp. 1997 Stock Plan  
ONI Systems Corp. 1998 Equity Incentive Plan  
ONI Systems Corp. 1999 Equity Incentive Plan  
ONI Systems Corp. 2000 Equity Incentive Plan  
ONI Systems Corp. 2000 Employee Stock Option Plan  
(Full title of the Plan)

Russell B. Stevenson, Jr.  
Senior Vice President, General Counsel and Secretary  
CIENA Corporation  
1201 Winterson Road  
Linthicum, Maryland 21090  
(410) 865-8500

(Name, address and telephone number, including area code, of agent for service)

Copy to:  
Michael J. Silver  
Amy Bowerman Freed  
Stephanie D. Marks  
Hogan & Hartson L.L.P.  
111 South Calvert Street  
Baltimore, Maryland 21202  
(410) 659-2700

**CALCULATION OF REGISTRATION FEE**

Title of securities to be registered	Amount to be registered	Proposed maximum offering price per share	Proposed maximum aggregate offering price	Amount of registration fee (1)
ONI Systems Corp. 1997 Stock Plan Common Stock, par value \$.01 per share (2)	3,906	\$ 3.89	\$ 15,194.34	\$ 1.40

ONI Systems Corp. 1998 Equity Incentive Plan Common Stock, par value \$.01 per share (2)	4,216,724	\$ 3.89	\$16,403,056.36	\$1,509.08
ONI Systems Corp. 1999 Equity Incentive Plan Common Stock, par value \$.01 per share (2)	531,932	\$ 3.89	\$ 2,069,215.48	\$ 190.37
ONI Systems Corp. 2000 Equity Incentive Plan Common Stock, par value \$.01 per share (2)	18,799,261	\$ 3.89	\$73,129,125.29	\$6,727.88
ONI Systems Corp. 2000 Employee Stock Option Plan Common Stock, par value \$.01 per share (2)	1,174,725	\$ 3.89	\$ 4,569,680.25	\$ 420.41
Aggregate Filing Fee:				\$8,849.14

- (1) Estimated pursuant to Rule 457(c) and (h) of the Securities Act of 1933, as amended, solely for the purpose of calculating the amount of the registration fee, based on the average of the high and low prices per share of CIENA Corporation common stock, par value \$.01 per share, on June 21, 2002, as reported on the NASDAQ National Market.
- (2) Includes Series A Junior Participating Preferred Share Purchase Rights attached thereto, for which no separate fee is payable pursuant to Rule 457(i).

Exhibit Index Appears on page 8.

## EXPLANATORY NOTE

This Registration Statement on Form S-8 of CIENA Corporation (the "Company") is being filed in connection with the recent merger of ONI Systems Corp. ("ONI Systems") and the Company on June 21, 2002 (the "Merger") and pursuant to the terms of that Agreement and Plan of Merger, dated as of February 17, 2002, between ONI Systems and the Company, pursuant to which the Company is required to assume the ONI Systems option plans listed on the front page of this Form S-8.

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**PART I**

**INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS**

The documents containing the information specified in Part I will be sent or given to employees as specified by Rule 428(b)(1) of the Securities Act of 1933 (the "Securities Act"). In accordance with the instructions to Part I of Form S-8, such documents will not be filed with the Securities and Exchange Commission (the "Commission"). These documents and the documents incorporated by reference pursuant to Item 3 of Part II of this registration statement, taken together, constitute a prospectus that meets the requirements of Section 10(a) of the Securities Act.

**PART II**

**INFORMATION REQUIRED IN THE REGISTRATION STATEMENT**

**Item 3. Incorporation of Documents by Reference.**

The Company hereby incorporates by reference into this registration statement the following documents filed by it with the Commission:

- (a) The Registrant's Form 10-K for the fiscal year ended October 31, 2001 and filed December 13, 2001, as amended on May 15, 2002;
- (b) The Registrant's Form 10-Q for the quarter ended January 31, 2002 and filed February 21, 2002, as amended on May 15, 2002;
- (c) The Registrant's Forms 8-K filed on November 13, 2001, February 5, 2002, February 19, 2002 and March 26, 2002;
- (d) All reports filed with the Commission pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), since October 31, 2001; and
- (e) The description of the Company's Common Stock, \$.01 par value per share ("Common Stock"), contained in the Registrant's Registration Statement on Form 8-A filed with the Commission on January 13, 1997, including all amendments and reports filed under Section 13(a) or 15(d) of the Exchange Act for purposes of updating the description of Common Stock.

In addition, all documents and reports filed by the Company subsequent to the date hereof pursuant to Sections 13(a), 13(c), 14, and 15(d) of the Exchange Act, prior to the filing of a post-effective amendment to this registration statement which indicates that all securities offered have been sold or which deregisters all securities remaining unsold, shall be deemed to be incorporated by reference in this registration statement and to be part hereof from the date of filing of such documents or reports. Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this registration statement to the extent that a statement contained herein or in any other subsequent filed document which also is or is deemed to be incorporated by reference herein modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this registration statement.

**Item 4. Description of Securities.**

Not applicable (the Common Stock is registered under Section 12(g) of the Exchange Act).

**Item 5. Interests of Named Experts and Counsel.**

Not applicable.

**Item 6. Indemnification of Directors and Officers.**

Section 145 of the Delaware General Corporation Law permits indemnification of officers, directors and other corporate agents under certain circumstances and subject to certain limitations. The Registrant's Third Amended and Restated Certificate of Incorporation and bylaws provide that the Registrant shall indemnify its directors, officers, employees and agents to the full extent permitted by Delaware General Corporation Law, including in circumstances in which indemnification is otherwise discretionary under Delaware law. In addition, the Registrant has entered into separate indemnification agreements with its directors, officers and certain employees which require the Registrant, among other things, to indemnify them against certain liabilities which may arise by reason of their status or service (other than liabilities arising from willful misconduct of a culpable nature) and to maintain directors' and officers' liability insurance, if available on reasonable terms. The Registrant has directors' and officers' liability insurance with up to \$100 million coverage per year. These indemnification provisions and the indemnification agreement between the Registrant and its officers and directors may be sufficiently broad to permit indemnification of the Registrant's officers and directors for liabilities (including reimbursement of expenses incurred) arising under the Securities Act.

\* \* \*

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers, and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

**Item 7. Exemption from Registration Claimed.**

Not applicable.

**Item 8. Exhibits.**

<u>Exhibit Number</u>	<u>Description</u>
4.1 (1)	Specimen Stock Certificate
4.2 (2)	Rights Agreement dated December 29, 1997

4.3 (3)	Amendment to Rights Agreement dated June 2, 1998
4.4 (4)	Amendment No. 2 to Rights Agreement dated September 13, 1998
4.5 (5)	Amendment No. 3 to Rights Agreement dated October 14, 1998
5.1	Opinion of Hogan & Hartson L.L.P. regarding the legality of the shares being registered (filed herewith)
23.1	Consent of Hogan & Hartson L.L.P. (included in Exhibit 5.1)
23.2	Consent of PricewaterhouseCoopers LLP (filed herewith)
24.1	Power of Attorney (included on signature page)

- 
- (1) Incorporated by reference from the Company's Registration Statement on Form S-1 (333-17729).
  - (2) Incorporated by reference from the Company's Form 8-K filed on December 29, 1997.
  - (3) Incorporated by reference from the Company's Form 8-K filed on June 3, 1998.
  - (4) Incorporated by reference from the Company's Form 8-K filed on September 14, 1998.
  - (5) Incorporated by reference from the Company's Form 8-K filed on October 19, 1998.

#### **Item 9. Undertakings.**

(a) The undersigned Registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement.

Provided, however, that paragraphs (a)(1)(i) and (a)(1)(ii) do not apply if the registration statement is on Form S-3, Form S-8 or Form F-3, and the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the Commission by the Registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act that are incorporated by reference in the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(b) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(c) The undertaking concerning indemnification is set forth under the response to Item 6.



## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Linthicum, State of Maryland, on June 26, 2002.

CIENA Corporation

By: /s/ Gary B. Smith

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Gary B. Smith, President,  
Chief Executive Officer and Director

## POWER OF ATTORNEY

Know all men by these presents, that each individual whose signature appears below constitutes and appoints Gary B. Smith, Joseph R. Chinnici and Russell B. Stevenson, Jr., and each of them as his true and lawful attorney-in-fact and agent, with power of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities, to sign a registration statement (the "Registration Statement") relating to a registration of shares of common stock on Form S-8 and to sign any and all amendments (including post-effective amendments) to the Registration Statement, and to file the same, with all exhibits and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, or their or his substitutes or substitute, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement on Form S-8 has been signed by the following persons in the capacities indicated and the date indicated above.

/s/ Patrick H. Nettles _____ Patrick H. Nettles	Executive Chairman
/s/ Gary B. Smith _____ Gary B. Smith	President, Chief Executive Officer and Director  (Principal Executive Officer)
/s/ Joseph R. Chinnici _____ Joseph R. Chinnici	Senior Vice President and  Chief Financial Officer (Principal Executive Officer)
/s/ Andrew C. Petrik _____ Andrew C. Petrik	Vice President, Controller and Treasurer  (Principal Accounting Officer)
/s/ Stephen P. Bradley _____ Stephen P. Bradley	Director
/s/ Harvey B. Cash _____ Harvey B. Cash	Director

/s/ Don Davis, Jr. Director

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Don Davis, Jr.

/s/ John R. Dillon Director

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John R. Dillon

Director

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Lawton W. Fitt

/s/ Judith M. O'Brien Director

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Judith M. O'Brien

/s/ Gerald H. Taylor Director

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Gerald H. Taylor

## EXHIBIT INDEX

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**[Hogan & Hartson L.L.P. Letterhead]**

June 26, 2002

Board of Directors  
CIENA Corporation  
1201 Winterson Road  
Linthicum, Md. 21090

Ladies and Gentlemen:

We are acting as special counsel to CIENA Corporation, a Delaware corporation (the "**Company**"), in connection with its registration statement on Form S-8, as amended (the "**Registration Statement**"), filed with the Securities and Exchange Commission relating to the registration of up to 24,726,548 shares of the Company's common stock, par value \$ .01 per share (the "**Shares**"), in connection with the recent merger of ONI Systems Corp. ("**ONI Systems**") and the Company on June 21, 2002 where ONI Systems merged with and into the Company with the Company as the surviving corporation and pursuant to the terms of that Agreement and Plan of Merger, dated as of February 17, 2002, between ONI Systems and the Company (the "**Merger Agreement**"), pursuant to which the Company is required to assume ONI Systems' 1997 Stock Option Plan, 1998 Equity Incentive Plan, 1999 Equity Incentive Plan, 2000 Equity Incentive Plan and 2000 Employee Stock Purchase Plan (collectively, the "**Plans**"). This opinion letter is furnished to you at your request to enable you to fulfill the requirements of Item 601(b)(5) of Regulation S-K, 17 C.F.R. § 229.601(b)(5), in connection with the Registration Statement.

For purposes of this opinion letter, we have examined copies of the following documents:

1. An executed copy of the Registration Statement.
  2. Copies of the Plans.
  3. The Merger Agreement.
  4. The Third Restated Certificate of Incorporation of the Company, as amended, as certified by the Secretary of the State of the State of Delaware on June 20, 2002 and by the Secretary of the Company on the date hereof as being complete, accurate, and in effect.
  5. The Bylaws of the Company, as certified by the Secretary of the Company on the date hereof as being complete, accurate, and in effect.
  6. Resolutions of the Board of Directors of the Company as certified by the secretary of the Company on the date hereof as being complete, accurate, and in effect, relating to the approval of the Merger Agreement and the Merger, authorization and issuance of the Shares and arrangements in connection
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therewith, and minutes of the special meeting of Stockholders of the Company held on June 18, 2002, approving the Merger Agreement and the Merger.

In our examination of the aforesaid documents, we have assumed the genuineness of all signatures, the legal capacity of all natural persons, the accuracy and completeness of all documents submitted to us, the authenticity of all original documents, and the conformity to authentic original documents of all documents submitted to us as copies (including telecopies). This opinion letter is given, and all statements herein are made, in the context of the foregoing.

This opinion letter is based as to matters of law solely on the Delaware General Corporation Law, as amended. We express no opinion herein as to any other laws, statutes, ordinances, rules, or regulations. As used herein, the term "Delaware General Corporation Law, as amended" includes the statutory provisions contained therein, all applicable provisions of the Delaware Constitution and reported judicial decisions interpreting these laws.

Based upon, subject to and limited by the foregoing, we are of the opinion that the Shares, when issued and delivered in the manner and on the terms contemplated in the Registration Statement and the Plans, will be validly issued, fully paid and non-assessable.

This opinion letter has been prepared for your use in connection with the Registration Statement and speaks as of the date hereof. We assume no obligation to advise you of any changes in the foregoing subsequent to the delivery of this opinion letter.

We hereby consent to the filing of this opinion letter as Exhibit 5.1 to the Registration Statement. In giving this consent, we do not thereby admit that we are an "expert" within the meaning of the Securities Act of 1933, as amended.

Very truly yours,

/s/ HOGAN & HARTSON L.L.P.

HOGAN & HARTSON L.L.P.

**CONSENT OF INDEPENDENT ACCOUNTANTS**

We hereby consent to the incorporation by reference in this Registration Statement on Form S-8 of our report dated December 11, 2001 relating to the financial statements and financial statement schedule of CIENA Corporation, which appear in CIENA Corporation's Annual Report on Form 10-K for the year ended October 31, 2001, as amended.

/s/ PricewaterhouseCoopers LLP

McLean, Virginia  
June 24, 2002