## 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)

Ciena Corporation 2008 Omnibus Incentive 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 Hogan & Hartson L.L.P. 111 South Calvert Street Baltimore, Maryland 21202 (410) 659-2700

		Proposed	Proposed	
Title of securities	Amount to be	maximum offering	maximum aggregate	Amount of
to be registered	registered(1)	price per share (2)	offering price (2)	registration fee
Common Stock, \$0.01 par value per share	16,002,957	\$29.19	\$467,126,315	\$18,359

<sup>(1)</sup> Pursuant to Rule 416 under the Securities Act of 1933, as amended (the "Securities Act"), this Registration Statement shall also cover any additional shares of common stock which become issuable under the above-named plan by reason of any stock dividend, stock split, recapitalization or any other similar transaction effected without the receipt of consideration which results in an increase in the number of our outstanding shares of common stock.

)	Estimated solely for the purpose of calculating the registration fee in accordance with Rule 457(c) and (h) under the Securities Act of 1933, as amended, based upon the average of the high and low sale prices of the Common Stock as reported on the NASDAQ Global Select Exchange on March 20, 2008.

#### EXPLANATORY NOTE

Ciena Corporation (the "Registrant" or "Ciena") is filing this Registration Statement on Form S-8 to register the issuance of eight million shares of common stock authorized for issuance under the Ciena Corporation 2008 Omnibus Incentive Plan (the "2008 Plan"). The number of shares available for issuance under the 2008 Plan will be increased from time to time by: (i) the number of shares subject to outstanding stock options or restricted stock units granted under our "prior equity incentive compensation plans" that are forfeited, expire or are canceled without delivery of common stock following March 26, 2008, the effective date of the 2008 Plan, and (ii) the number of shares subject to awards assumed or substituted in connection with the acquisition of another company. Ciena's "prior equity incentive compensation plans" include the 2000 Equity Incentive Compensation Plan, 1994 Third Amended and Restated Stock Option Plan, 1996 Outside Directors Stock Option Plan, ONI Systems Corp. 1999 Equity Incentive Plan, ONI Systems Corp. 1998 Equity Incentive Plan, ONI Systems Corp. 1997 Stock Option Plan, 1999 Non-Officer Stock Option Plan, Cyras Systems, Inc. 1998 Stock Plan, Omnia Communications, Inc. 1997 Stock Plan, Lightera Networks, Inc. 1998 Equity Incentive Plan. Upon the effectiveness of the 2008 Plan, Ciena will not make any further awards under its prior equity incentive compensation plans. Ciena is also registering in this Form S-8 an additional 8,002,957 shares of common stock underlying equity awards issued under Ciena's prior equity incentive compensation plans that were outstanding as of March 26, 2008, the effective date of the 2008 Plan. This amount represents the maximum number of additional shares that may be added to the 2008 Plan pursuant to subclause (i) above; should these awards be forfeited, canceled or expire subsequent to March 26, 2008, without delivery of common stock.

#### PART I

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

Item 1. Plan Information.\*

Item 2. Registrant Information and Employee Plan Annual Information.\*

#### 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 Registrant 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, 2007 filed with the Commission on December 27, 2007 and the Form 10-Q for the first fiscal quarter ended January 31, 2008 filed with the Commission on March 7, 2008;
- (b) The Registrant's Current Reports on Form 8-K filed with the Commission on December 13, 2007 (only as to Item 5.02 therein), January 2, 2008, January 24, 2008, February 1, 2008, March 5, 2008 and March 27, 2008;
- (c) The description of the Registrant'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 Registrant 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.

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

Not applicable.

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

Under Section 145 of the Delaware General Corporation Law ("DGCL"), a corporation may indemnify its directors, officers, employees and agents and its former directors, officers, employees and agents and those who serve, at the corporation's request, in such capacities with another enterprise, against expenses (including attorneys' fees), as well as judgments, fines and settlements in nonderivative lawsuits, actually and reasonably incurred in connection with the defense of any action, suit or proceeding in which they or any of them were or are made parties or are threatened to be made parties by reason of their serving or having served in such capacity. The DGCL provides, however, that such person must have acted in good faith and in a manner such person reasonably believed to be in (or not opposed to) the best interests of the corporation and, in the case of a criminal action, such person must have had no reasonable cause to believe his or her conduct was unlawful. In addition, the DGCL does not permit indemnification in an action or suit by or in the right of the corporation, where such person has been adjudged liable to the corporation, unless, and only to the extent that, a court determines that such person fairly and reasonably is entitled to indemnity for costs the court deems proper in light of liability adjudication. Indemnity is mandatory to the extent a claim, issue or matter has been successfully defended.

The Amended and Restated Certificate of Incorporation of Ciena (the "Ciena Certificate") contains provisions that provide that no director of Ciena shall be liable for breach of fiduciary duty as a director, except for: (1) any breach of the directors' duty of loyalty to Ciena or its stockholders; (2) acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of the law; (3) liability under Section 174 of the DGCL; or (4) any transaction from which the director derived an improper personal benefit. The Ciena Certificate contains provisions that further provide for the indemnification of directors and officers to the fullest extent permitted by the DGCL. Under the bylaws of Ciena, Ciena is required to advance expenses incurred by an officer or director in defending any such action if the director or officer undertakes to repay such amount if it is determined that the director or officer is not entitled to indemnification. In addition, Ciena has entered into indemnity agreements with each of its directors pursuant to which Ciena has agreed to indemnify the directors as permitted by the DGCL. Ciena has obtained directors and officers liability insurance against certain liabilities, including liabilities under the Securities Act.

#### Item 7. Exemption from Registration Claimed.

Not applicable.

## Item 8. Exhibits.

Exhibit Number	Description
4.1(1)	Specimen Stock Certificate
5.1	Opinion of Russell B. Stevenson, Jr., Senior Vice President, General Counsel and Secretary of Ciena Corporation (filed herewith)
10.1(2)	2008 Omnibus Incentive Plan
23.1	Consent of Russell B. Stevenson, Jr., Senior Vice President, General Counsel and Secretary of Ciena Corporation (contained in Exhibit 5.1)
23.2	Consent of PricewaterhouseCoopers LLP (filed herewith)
24.1	Power of Attorney (included with signature page)

<sup>(1)</sup> Incorporated by reference from the Registrant's Annual Report on Form 10-K filed December 27, 2007.

(2) Incorporated by reference from the Registrant's Form 8-K filed on March 27, 2008.

## 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; and

(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) 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.

## **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 this 27th day of March, 2008.

## CIENA CORPORATION

By: /S/ Gary B. Smith
Gary B. Smith
President and Chief Executive Officer

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#### POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Gary B. Smith and Russell B. Stevenson, Jr., and each of them, his or her true and lawful attorney-in-fact and agents, with full power of substitution and resubstitution, from such person and in each person's name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement, any Registration Statement relating to this Registration Statement under Rule 462 and to file the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, full power and authority to do and perform each and every act and thing requisite and necessary to be done as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, may lawfully do or cause to be done.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
/S/ Patrick H. Nettles, Ph.D. Patrick H. Nettles, Ph.D.	Executive Chairman of the Board of Directors	March 27, 2008
/S/ Gary B. Smith Gary B. Smith	President, Chief Executive Officer and Director (Principal Executive Officer)	March 27, 2008
/S/ James E. Moylan James E. Moylan, Jr.	Senior Vice President, Finance and Chief Financial Officer (Principal Financial Officer)	March 27, 2008
/S/ Andrew C. Petrik Andrew C. Petrik	Vice President, Controller and Treasurer (Principal Accounting Officer)	March 27, 2008
/S/ Stephen P. Bradley Stephen P. Bradley	Director	March 27, 2008
/S/ Harvey B. Cash Harvey B. Cash	Director	March 27, 2008
/S/ Bruce L. Claflin Bruce L. Claflin	Director	March 27, 2008
/S/ Lawton W. Fitt Lawton W. Fitt	Director	March 27, 2008
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Signature	Title	Date
/S/ Judith M. O'Brien Judith M. O'Brien	Director	March 27, 2008
/S/ Michael J. Rowny Michael J. Rowny	Director	March 27, 2008
/S/ Gerald H. Taylor Gerald H. Taylor	Director	March 27, 2008
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## EXHIBIT INDEX

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<sup>(1)</sup> Incorporated by reference from the Registrant's Annual Report on Form 10-K filed December 27, 2007.

<sup>(2)</sup> Incorporated by reference from the Registrant's Form 8-K filed on March 27, 2008.

March 27, 2008

Board of Directors Ciena Corporation 1201 Winterson Road Linthicum, Maryland 21090

#### Ladies and Gentlemen:

This opinion letter is furnished to you 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 on Form S-8 (the "Registration Statement") filed with the Securities and Exchange Commission relating to the registration of up to 16,002,957 shares of the Company's common stock, par value \$0.01 per share (the "Shares"), issuable under the Ciena Corporation 2008 Omnibus Incentive Plan (the "Plan"). For purposes of this opinion letter, I have examined such records, documents and proceedings as I have deemed relevant and necessary as a basis for the opinion expressed herein.

This opinion letter is based as to matters of law solely on the Delaware General Corporation Law, as amended. I 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, I am of the opinion that when issued in accordance with the terms of the Plan and the option agreements issued under the Plan, the Shares will be validly issued, fully paid, and nonassessable.

This opinion letter has been prepared for your use in connection with the Registration Statement. I hereby consent to the filing of this opinion letter as Exhibit 5.1 to the Registration Statement. In giving this consent, I do not thereby admit that I am an "expert" within the meaning of the Securities Act of 1933, as amended.

Very truly yours,

/S/ Russell B. Stevenson, Jr.
Russell B. Stevenson, Jr.
Senior Vice President, General
Counsel and Secretary

## CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in this Registration Statement on Form S-8 of our report dated December 27, 2007 relating to the financial statements and the effectiveness of internal control over financial reporting, which appears in Ciena Corporation's Annual Report on Form 10-K for the year ended October 31, 2007.

/s/ PricewaterhouseCoopers LLP

McLean, VA March 27, 2008