

BIOLASE, INC  
Form 424B3  
September 19, 2014  
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**Filed Pursuant to Rule 424(b)(3)  
Registration No. 333-198291**

## PROSPECTUS

**6,250,000 Shares**

**BIOLASE, INC.**

**Common Stock**

This prospectus relates to the possible resale, from time to time, of up to 6,250,000 shares of our common stock, \$0.001 par value per share, and associated preferred stock purchase rights, by the selling stockholders identified in this prospectus or in supplements to this prospectus. The shares were issued to the selling stockholders in connection with a previously disclosed July 22, 2014 private placement. We are registering the shares to provide the selling stockholders with freely tradable securities. This prospectus does not necessarily mean that the selling stockholders will offer or sell those shares.

We will receive no proceeds from any sale by the selling stockholders of the shares of our common stock covered by this prospectus, but we have agreed to pay certain expenses relating to the registration of such shares. The selling stockholders may from time to time offer and resell, transfer or otherwise dispose of any or all of the shares of our common stock covered by this prospectus through underwriters or dealers, directly to purchasers or through broker-dealers or agents. See Plan of Distribution.

Our common stock trades on the NASDAQ Capital Market under the symbol BIOL. On August 20, 2014, the closing price for our common stock, as reported on the NASDAQ Capital Market, was \$2.19 per share.

**Investing in our securities involves certain risks. See Risk Factors on page 3 of this prospectus and in any applicable prospectus supplement for certain risks you should consider. You should read the entire prospectus carefully before you make your investment decision.**

**Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.**

**The date of this prospectus is September 18, 2014**

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**PROSPECTUS SUMMARY**

**About this Prospectus**

This prospectus is part of a shelf registration statement that we have filed with the Securities and Exchange Commission (the SEC). Under the shelf registration statement, the selling stockholders may offer and resell up to 6,250,000 shares of our common stock and associated preferred stock purchase rights in one or more offerings. The exhibits to the registration statement contain the full text of certain contracts and other important documents we have summarized in this prospectus. Since these summaries may not contain all the information that you may find important in deciding whether to purchase our common stock, you should review the full text of these documents. The registration statement and the exhibits can be obtained from the SEC as indicated under the sections entitled Incorporation of Certain Information by Reference and Where You Can Find More Information.

You should rely only on the information provided or incorporated by reference in this prospectus or any applicable prospectus supplement. Neither we nor the selling stockholders have authorized anyone to provide you with different or additional information. Neither we nor the selling stockholders are making an offer to sell our common stock in any jurisdiction where the offer or sale thereof is not permitted. You should not assume that the information appearing in this prospectus or any applicable prospectus supplement or the documents incorporated by reference herein or therein is accurate as of any date other than their respective dates. Our business, financial condition, results of operations and prospects may have changed since those dates. You should read carefully the entirety of this prospectus and any applicable prospectus supplement, as well as the documents incorporated by reference in this prospectus and any applicable prospectus supplement, before making an investment decision.

In this prospectus, unless otherwise specified or the context requires otherwise, we use the terms company, we, us and our to refer to Biolase, Inc., a Delaware corporation, together with its consolidated subsidiaries.

**Our Company**

We are a biomedical device company that develops, manufactures, and markets lasers in dentistry and medicine and also markets and distributes dental imaging equipment, including cone beam digital x-rays and CAD/CAM intra-oral scanners, and in-office, chair-side milling machines and three-dimensional printers; products that are focused on technologies that advance the practice of dentistry and medicine and offer benefits and value to healthcare professionals and their patients. Our proprietary dental laser systems allow dentists, periodontists, endodontists, oral surgeons, and other specialists to perform a broad range of dental procedures, including cosmetic, restorative, and complex surgical applications. Our systems are designed to provide clinically superior performance for many types of dental procedures with less pain and faster recovery times than are generally achieved with drills, scalpels, and other conventional instruments. We have clearance from the U.S. Food and Drug Administration to sell our laser systems in the United States and also have the necessary registration to sell our laser systems in Canada, the European Union, and various other international markets. Our licensed dental imaging equipment and other related products are designed to improve diagnoses, applications, and procedures in dentistry and medicine.

We offer two categories of laser system products: WaterLase systems and Diode systems. Our flagship product category, the WaterLase system, uses a patented combination of water and laser energy to perform most procedures currently performed using dental drills, scalpels, and other traditional dental instruments for cutting soft and hard tissue. We also offer our Diode laser systems to perform soft tissue, pain therapy, and cosmetic procedures, including teeth whitening. We currently have approximately 185 issued and 115 pending U.S. and international patents, the majority of which are related to our core WaterLase technology and dental and medical



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lasers. From 1998 through June 30, 2014, we have sold over 26,200 laser systems in over 80 countries around the world. Contained in this total is over 10,400 WaterLase systems, which includes more than 6,400 WaterLase MD<sup>®</sup> and iPlus<sup>®</sup> systems.

For additional information about our Company, please refer to other documents we have filed with the SEC and that are incorporated by reference into this prospectus, as listed under the heading Incorporation of Certain Information by Reference.

Our principal executive offices are located at 4 Cromwell, Irvine, California 92618. Our telephone number is (949) 361-1200. Additional information can be found on our website, at [www.biolase.com](http://www.biolase.com), and in our periodic and current reports filed with the SEC. Copies of our current and periodic reports filed with the SEC are available at the SEC Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549, and online at [www.sec.gov](http://www.sec.gov) and our website at [www.biolase.com](http://www.biolase.com). No portion of our website is incorporated by reference into this prospectus.

**The Offering**

Securities Offered by the Selling Stockholders	Up to 6,250,000 shares of common stock and associated preferred stock purchase rights
Common Stock Outstanding	43,899,035 shares (as of August 14, 2014)
Terms of the Offering	The selling stockholders may from time to time offer and resell, transfer or otherwise dispose of any or all of the shares of our common stock covered by this prospectus through underwriters or dealers, directly to purchasers or through broker-dealers or agents. See Plan of Distribution.
Use of Proceeds	We will not receive any of the proceeds from the sale of the shares of common stock being offered under this prospectus. See Use of Proceeds.
NASDAQ Capital Market Symbol	BIOL
Risk Factors	You should read the Risk Factors section of this prospectus for a discussion of factors to consider carefully before deciding to invest in shares of our common stock.

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**RISK FACTORS**

We face a variety of significant and diverse risks, many of which are inherent in our business. You should carefully consider the risks described under the caption "Risk Factors" in our annual reports on Form 10-K, quarterly reports on Form 10-Q and other filings we make with the SEC pursuant to Section 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), incorporated by reference herein, before making an investment decision. The occurrence of any of those risks could materially and adversely affect our business, prospects, financial condition, results of operations or cash flow. Other risks and uncertainties that we do not now consider to be material or of which we are not now aware may become important factors that affect us in the future. You should carefully consider the risks and uncertainties described in the documents incorporated by reference herein before deciding to invest in our common stock.

**DESCRIPTION OF CAPITAL STOCK**

The following summary description sets forth some of the general terms and provisions of our capital stock. Because this is a summary description, it does not contain all of the information that may be important to you. For a more detailed description of our capital stock, you should refer to the provisions of our Restated Certificate of Incorporation, as amended (our "charter"), and our Sixth Amended and Restated Bylaws (our "bylaws").

**General**

Under our charter, we are authorized to issue 50,000,000 shares of our common stock, par value \$0.001 per share, and 1,000,000 shares of preferred stock, par value \$0.001 par value per share. As of August 14, 2014, there were 43,899,035 shares of our common stock issued and outstanding and no shares of our preferred stock issued and outstanding.

*Common Stock*

Holders of our common stock are entitled to one vote per share. Each of our directors is elected by the affirmative vote of a majority of the votes cast with respect to such director in uncontested elections and by an affirmative vote of a plurality of the votes cast for such director in a contested election. A "contested election" is defined in our bylaws as an election with respect to which, as of the record date for the meeting at which directors are to be elected, the number of nominees exceeds the number of directors to be elected at such meeting. Vacancies on the Board of Directors may be filled by an affirmative vote of two-thirds of the remaining members of the Board of Directors or at a meeting of the stockholders in the manner set forth in the second preceding sentence.

Subject to any preferential rights of any outstanding shares of our preferred stock to receive dividends before any dividends may be paid on our common stock, the holders of our common stock will be entitled to share ratably in any dividends that may be declared by our Board of Directors out of funds legally available for the payment of dividends. Subject to any preferential rights of any outstanding shares of our preferred stock, in the event of our liquidation, dissolution or winding up, holders of our common stock are entitled to share ratably in the assets remaining after payment of liabilities and the liquidation preferences of any outstanding preferred stock. Our common stock does not carry any redemption rights or any preemptive rights enabling a holder to subscribe for, or receive shares of, any class of our common stock or any other securities convertible into shares of any class of our common stock.

*Preferred Stock*

Our charter authorizes our Board of Directors to provide for the issuance of shares of preferred stock in one or more series. Prior to issuance of shares of each series, our Board of Directors is required by the Delaware



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General Corporation Law (the "DGCL") and our charter to fix the designation, powers, preferences and rights of the shares of such series and the qualifications, limitations or restrictions thereof. Thus, our Board of Directors could authorize the issuance of shares of preferred stock that have priority over our common stock with respect to dividends or rights upon liquidation or with terms and conditions that could have the effect of delaying, deferring or preventing a transaction or a change of control of our company that might involve a premium price for holders of our common stock or otherwise be in their best interests.

Of the 1,000,000 authorized shares of preferred stock, 100 shares have been designated as Series A 6% Redeemable Cumulative Convertible Preferred Stock ("Series A Preferred Stock"). Holders of shares of Series A Preferred Stock are entitled to one vote per share of Series A Preferred Stock held. All of the votes of holders of shares of Series A Preferred Stock are counted together with all other shares of our stock and not separately as a class. The holders of Series A Preferred Stock are entitled to receive cash dividends at the quarterly rate of \$750 per share. In the event of the Company's liquidation (subject to the rights of any senior-ranking stock), the holders of shares of our Series A Preferred Stock shall be entitled to receive, per share of Series A Preferred Stock held, a liquidation payment in an amount equal to the sum of (i) \$50,000 and (ii) an amount equal to the difference calculated by subtracting all dividends paid on such share of Series A Preferred Stock since the issuance of such share through the date of liquidation from 6% per annum return on \$50,000 for the period from the date of issuance of the shares through the date of liquidation. Shares of our Series A Preferred Stock are subject to redemption at any time on or after the 180<sup>th</sup> day following the initial issuance of shares of Series A Preferred Stock. At the option of the holder, each share of our Series A Preferred Stock is convertible into 18,182 shares of our common stock for the first 30 days following the initial issuance. Shares of our Series A Preferred Stock are also convertible into shares of our common stock after 90 days following such initial issuance at a conversion price determined by formula. Shares of our Series A Preferred Stock automatically convert into shares of our common stock on the second anniversary of initial issuance at the conversion price then in effect.

Of the 1,000,000 authorized shares of preferred stock, 500,000 shares have been designated as Series B Junior Participating Cumulative Preferred Stock ("Series B Preferred Stock"). Holders of shares of Series B Preferred Stock are entitled to 100 votes per share of Series B Preferred Stock held. Subject to the rights of any senior-ranking stock, commencing upon the first quarterly dividend payment date after the first issuance of shares of Series B Preferred Stock, holders of our Series B Preferred Stock are entitled to receive quarterly dividends in an amount per share equal to the greater of (i) \$0.25 per share or (ii) subject to certain provisions, 100 times the aggregate per share amount of all cash dividends and 100 times the aggregate per share amount of all non-cash dividends or other distributions (other than a dividend payable in shares of common stock) declared on our common stock since the immediately preceding quarterly dividend payment date or, with respect to the first quarterly dividend payment date, since the first issuance of any shares of Series B Preferred Stock, all subject to adjustment in the event of a subdivision or combination of the outstanding shares of our common stock. In the event of the Company's liquidation, the holders of shares of our Series B Preferred Stock shall be entitled to receive a liquidation payment in an amount equal to the greater of (1) \$1.00 per Share of Series B Preferred Stock, plus all accrued and unpaid dividends and distributions on the shares of our Series B Preferred Stock, or (2) an amount equal to 100 times the aggregate amount to be distributed per share of our common stock. The charter may not be amended in any manner that would materially alter the powers, preferences or special rights of the Series B Preferred Stock without the affirmative vote of the holders of at least two-thirds of the outstanding shares of Series B Preferred Stock, voting together as a single class. For additional information about the Series B Preferred Stock, see "Rights Plan" below.

As of the date hereof, no shares of our Series A Preferred Stock or Series B Preferred Stock are outstanding.



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**Anti-Takeover Provisions of Delaware Law and Our Governing Documents**

*Delaware Law*

We are subject to Section 203 of the DGCL ( Section 203 ). In general, Section 203 prohibits a publicly held Delaware corporation from engaging in business combination transactions with any interested stockholder for a period of three years following the time that the stockholder became an interested stockholder, unless:

prior to the time the stockholder became an interested stockholder, either the applicable business combination or the transaction which resulted in the stockholder becoming an interested stockholder is approved by the corporation's board of directors;

upon consummation of the transaction which resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding for purposes of determining the voting stock outstanding (but not the voting stock owned by the interested stockholder) shares owned by directors who are also officers of the corporation and shares owned by employee stock plans in which the employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or

at or subsequent to the time that the stockholder became an interested stockholder, the business combination is approved by the corporation's board of directors and authorized at an annual or special meeting of stockholders by the affirmative vote of at least 66  $\frac{2}{3}$ % of the outstanding voting stock which is not owned by the interested stockholder.

A business combination is defined to include, in general and subject to exceptions, a merger of the corporation with the interested stockholder; a sale of 10% or more of the market value of the corporation's consolidated assets to the interested stockholder; certain transactions that result in the issuance of the corporation's stock to the interested stockholder; a transaction that has the effect of increasing the proportionate share of the corporation's stock owned by the interested stockholder; and any receipt by the interested stockholder of loans, guarantees or other financial benefits provided by the corporation. An interested stockholder is defined to include, in general and subject to exceptions, a person that (1) owns 15% or more of the outstanding voting stock of the corporation or (2) is an affiliate or associate (as defined in Section 203) of the corporation and was the owner of 15% or more of the corporation's outstanding voting stock at any time within the prior three year period.

A Delaware corporation may opt out of Section 203 with an express provision in its original certificate of incorporation or by an amendment to its certificate of incorporation or bylaws expressly electing not to be governed by Section 203 and approved by a majority of its outstanding voting shares. We have not opted out of Section 203. As a result, Section 203 could delay, deter or prevent a merger, change of control or other takeover of our company that our stockholders might consider to be in their best interests, including transactions that might result in a premium being paid over the market price of our common stock, and may also limit the price that investors are willing to pay in the future for our common stock.

*Undesignated Preferred Stock*

The ability to authorize undesignated preferred stock makes it possible for our Board of Directors to issue one or more series of preferred stock with voting or other rights or preferences. These and other provisions may have the effect of deferring hostile takeovers or delaying changes in control or management of our company.

*Requirements for Advance Notification of Stockholder Nominations and Proposals*

Our bylaws establish advance notice procedures with respect to stockholder proposals and the nomination of candidates for election as directors, other than nominations made by or at the direction of the Board of Directors or a committee of the Board of Directors.

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### *Stockholder Action by Written Consent; Special Meetings of Stockholders*

Our stockholders may take action by written consent in lieu of a meeting as provided in our bylaws. Our bylaws provide that certain procedures, including notifying the Board of Directors and awaiting a record date, must be followed for stockholders to act by written consent. A special meeting of our stockholders may be called only by our Board of Directors, the Chairman of the Board, the Executive Vice Chairman, the Chief Executive Officer or the President. A special meeting may also be called at the request of stockholders holding a majority of the aggregate number of shares of capital stock of the Company issued and outstanding and entitled to vote at that meeting (subject to certain timeliness and content requirements of the demand).

### *Amendment of Certificate of Incorporation and Bylaws*

Our charter may be amended by the affirmative vote of a majority of the aggregate number of shares of each class of our capital stock issued and outstanding after a resolution of our Board of Directors declaring the advisability of such amendment has been adopted in accordance with Delaware law. Our bylaws may be amended by the affirmative vote of a majority of the aggregate number of shares of each class of our capital stock issued and outstanding (and entitled to vote on the subject matter) present in person or represented by proxy at a meeting of stockholders provided that notice thereof is stated in the written notice of the meeting. Our bylaws may also be amended by a majority of the Board of Directors in accordance with Delaware law and our charter, except that certain sections of our bylaws (including but not limited to certain provisions regarding special meetings, voting, officers, and approval of securities issuances) require either the affirmative vote of two-thirds of the persons then serving as directors on the Board of Directors or our stockholders.

### *Forum Selection*

Unless the Board of Directors acting on behalf of the Company selects an alternative forum, the Court of Chancery of the State of Delaware (or, if the Court of Chancery does not have jurisdiction, another state court located within the State of Delaware or, if no court located within the State of Delaware has jurisdiction, the federal district court for the District of Delaware) shall be the sole and exclusive forum for (i) any derivative action or proceeding brought on behalf of the Company, (ii) any action asserting a claim of breach of a fiduciary duty owed by any of our directors, officers or other employees to the Company or our stockholders, (iii) any action asserting a claim against the Company or any of our directors, officers or other employees arising pursuant to any provision of the DGCL, our charter or our bylaws or (iv) any action asserting a claim against the Company or any of our directors, officers or other employees governed by the internal affairs doctrine of the State of Delaware, in all cases subject to the court's having personal jurisdiction over all indispensable parties named as defendants.

If any action the subject matter of which is within the scope of the immediately preceding paragraph is filed in a court other than a court located within the State of Delaware in the name of any stockholder, such stockholder will be deemed to have consented to (i) the personal jurisdiction of the state and federal courts located within the State of Delaware in connection with any action brought in any such court to enforce the exclusive forum provision (an Enforcement Action ) and (ii) having service of process made upon such stockholder in any such Enforcement Action by service upon such stockholder's counsel in the action outside of the State of Delaware as agent for such stockholder.

## **Rights Plan**

We are a party to a rights agreement, dated December 31, 1998, with Computershare Trust Company, N.A. (as successor to U.S. Stock Transfer Corporation), as amended on December 19, 2008 and March 17, 2014 (the Rights Agreement ). Under the Rights Agreement, holders of our common stock are entitled to one preferred stock purchase

right (a right ) per share of our common stock held. The Rights Agreement defines a 20% Ownership Date as the first date of public announcement that a person has become the beneficial owner of 20%

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or more of our then outstanding shares of common stock (any such beneficial owner, a 20% stockholder ), and the Rights Agreement provides that if a 20% Ownership Date has occurred and neither the Rights Agreement has expired nor the rights are redeemed within 10 business days after such 20% Ownership Date, each right will entitle the holder thereof (other than a 20% stockholder or affiliate or associate thereof), upon payment of the then current exercise price:

to purchase shares of our common stock at a 50% discount; or

to purchase shares of common stock of the acquiring person at a 50% discount, if the Company (a) sells more than 50% of its assets or earning power or (b) the Company consolidates or merges with and into any other person and either the Company is not the surviving corporation or if the Company is the surviving corporation, Company common stock is changed into or exchanged for cash, securities or other property in connection with such consolidation or merger (any event described in clause (a) or (b) being a flip-over event ).

In addition, on the tenth business day (or such later day as designated by the Board of Directors) (the Tender Offer Trigger Date ) following the commencement of, or the first public announcement of the intent of any person to commence, a tender or exchange offer, the consummation of which would cause any person to become a 20% stockholder, holders of rights (other than rights that were beneficially owned by a 20% stockholder or any affiliate or associate thereof at any time after the Tender Offer Trigger Date) are entitled to purchase one one-hundredth of a share of Series B Preferred Stock upon payment of the then current exercise price. The rights are subject to redemption at \$0.001 per right at any time prior to the earliest of (a) a flip-over event, (b) the tenth business day after the 20% Ownership Date and (c) December 31, 2018. The Rights Agreement sets the initial exercise price of the rights at \$30.00 per right. The exercise price, number of rights outstanding and the number and kind of securities that may be purchased upon exercise of a right are subject to adjustment, as specified in the Rights Agreement. The Rights Agreement expires on December 31, 2018.

## **Stock Exchange Listing**

Our common stock trades on the NASDAQ Capital Market under the symbol BIOL.

## **Transfer Agent and Registrar**

The transfer agent and registrar for our common stock is Computershare Trust Company, N.A.

**Table of Contents****SELLING STOCKHOLDERS**

The selling stockholders named in this prospectus may sell shares of our common stock registered pursuant to the registration statement of which this prospectus forms a part. This prospectus covers the resale of 6,250,000 shares of common stock and associated preferred stock purchase rights issued to the selling stockholders named in this prospectus in connection with our previously disclosed July 22, 2014 private placement. The selling stockholders are not required to offer any of the shares of our common stock covered by this prospectus for resale. Since the selling stockholders may sell all, some or none of their shares, we cannot estimate the aggregate number of shares that the selling stockholders will offer pursuant to this prospectus or that the selling stockholders will own upon completion of the offering to which this prospectus relates.

Information about additional selling stockholders may be set forth in a prospectus supplement, in a post-effective amendment or in filings that we make with the SEC under the Exchange Act, which are incorporated by reference in this prospectus.

Each selling stockholder that sells shares of common stock pursuant to this prospectus may be deemed to be an underwriter within the meaning of the Securities Act of 1933, as amended (the Securities Act). Any commissions received by a broker or dealer in connection with resales of our common stock may be deemed to be underwriting commissions or discounts under the Securities Act.

The following table sets forth information with respect to our common stock beneficially owned by the selling stockholders as of August 14, 2014:

Name of Selling Stockholder	Shares Owned Prior to Resale (1)		Maximum Number of Shares Offered for Resale	Shares Owned After Resale (2)	
	Number	%		Number	%
Alexander K. Arrow (3)	261,977	*	7,812	254,165	*
Frederick D. Furry (4)	225,857	*	13,020	212,837	*
Jeffrey M. Nugent (5)	130,892	*	52,083	78,809	*
Birchview Fund, LLC (6)	781,250	1.8%	781,250		
Jack W. Schuler Living Trust (7)	2,604,166	5.9%	2,604,166		
Paul and Carolyn Clark Revocable Trust of 2009 (8)	605,954	1.4%	520,833	85,121	*
Oracle Partners, L.P. (9)	5,857,251	13.3%	1,641,036	4,216,215	9.6%
Oracle Ten Fund Master, L.P. (9)	1,686,550	3.8%	369,044	1,317,506	3.0%
Oracle Institutional Partners, L.P. (9)	862,945	2.0%	260,756	602,189	1.4%
<b>Total</b>			<b>6,250,000</b>		

\* Represents less than 1%.

(1) Based on 43,899,035 shares of our common stock outstanding as of August 14, 2014. In addition, shares underlying options and restricted stock units vesting within 60 days of August 14, 2014 are deemed outstanding for the purpose of computing the percentage ownership of the person or persons holding such options or restricted



- stock units, but are not deemed outstanding for computing the percentage ownership of any other persons.
- (2) Assumes that the selling stockholders will sell all of the shares of common stock saleable pursuant to this prospectus. We cannot assure you that the selling stockholders will sell all or any of these shares.
  - (3) Mr. Arrow is our Chief Medical Officer and a former member of our Board of Directors. Beneficial ownership includes 146,375 shares underlying options.

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- (4) Mr. Furry is our Chief Financial Officer. Beneficial ownership includes 207,656 shares underlying options.
- (5) Mr. Nugent is our President and Chief Executive Officer and a member of our Board of Directors. Beneficial ownership includes 64,606 shares underlying options and 14,203 restricted stock units.
- (6) Birchview Capital, LP, a Delaware limited partnership, serves as the investment manager of the selling stockholder (the Investment Manager ). Birchview Capital GP, LLC, a Delaware limited liability company, is the general partner of the Investment Manager (the General Partner ). Matthew Strobeck is the sole member of the General Partner.
- (7) Jack W. Schuler is the trustee and the beneficiary of the selling stockholder.
- (8) Paul N. Clark, the Chairman of our Board of Directors, is the trustee of the selling stockholder.
- (9) Based on the information provided in Amendment No. 8 to Schedule 13D filed with the SEC on July 23, 2014 by Oracle Partners, L.P. ( Oracle Partners ) with respect to itself, Oracle Institutional Partners, L.P. ( Institutional Partners ), Oracle Ten Fund Master, L.P. ( Ten Fund ), Oracle Associates, LLC ( Oracle Associates ), Oracle Investment Management, Inc. ( Oracle Investment ) and Larry N. Feinberg (Mr. Feinberg, together with Oracle Partners, Institutional Partners, Ten Fund, Oracle Associates and Oracle Investment, the Reporting Persons ). The Reporting Persons reported that Oracle Partners beneficially owns and has shared voting and dispositive power with respect to 5,857,251 shares of our common stock, Institutional Partners beneficially owns and has shared voting and dispositive power with respect to 862,945 shares of our common stock, each of Ten Fund and Oracle Investment beneficially owns and has shared voting and dispositive power with respect to 1,686,550 shares of our common stock, Oracle Associates beneficially owns and has shared voting and dispositive power with respect to 6,720,196 shares of our common stock and Larry N. Feinberg beneficially owns and has shared voting and dispositive power with respect to 8,406,746 shares of our common stock.

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**USE OF PROCEEDS**

All of the shares of common stock offered by the selling stockholders pursuant to this prospectus will be sold by the selling stockholders for their accounts. We will not receive any of the proceeds from these sales, if any. We will pay all of the fees and expenses incurred by us in connection with this registration. We will not be responsible for fees and expenses incurred by the selling stockholders or any underwriting discounts or commissions.

**PLAN OF DISTRIBUTION**

The selling stockholders and any of their pledgees, assignees and successors-in-interest may, from time to time, sell any or all of the shares of our common stock and associated preferred stock purchase rights beneficially owned by them and offered hereby directly or through one or more underwriters, broker-dealers or agents. The selling stockholders will be responsible for any underwriting discounts or agent's commissions. The common stock may be sold in one or more transactions at fixed prices, at prevailing market prices at the time of the sale, at varying prices determined at the time of sale, or at negotiated prices. The selling stockholders may use any one or more of the following methods when selling shares:

on NASDAQ or any other national securities exchange or quotation service on which the securities may be listed or quoted at the time of sale;

in the over-the-counter market;

in transactions otherwise than on these exchanges or systems or in the over-the-counter market;

through the writing of options, whether such options are listed on an options exchange or otherwise;

through ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;

through block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;

through purchases by a broker-dealer as principal and resale by the broker-dealer for its account;

in an exchange distribution in accordance with the rules of the applicable exchange;

in privately negotiated transactions;

through the settlement of short sales;

a combination of any such methods of sale; and

any other method permitted pursuant to applicable law.

The selling stockholders also may sell shares under Rule 144 promulgated under the Securities Act rather than under this prospectus or any related prospectus supplement.

In connection with the sale of our common stock or interests therein, the selling stockholders may enter into hedging transactions with broker-dealers or other financial institutions, which may in turn engage in short sales of our common stock in the course of hedging the positions they assume. The selling stockholders may also sell our common stock short and deliver these shares of our common stock to close out their short positions, or loan or pledge our common stock to broker-dealers that in turn may sell our common stock. The selling stockholders may also enter into option or other transactions with broker-dealers or other financial institutions or create one or more derivative securities which require the delivery to such broker-dealer or other financial institution of the shares of our common stock covered by this prospectus, which shares such broker-dealer or other financial institution may resell pursuant to this prospectus (as supplemented or amended to reflect such transaction).

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The selling stockholders and any broker-dealers or agents that are involved in selling the shares may be deemed to be underwriters within the meaning of the Securities Act in connection with such sales. In such event, any compensation received by such broker-dealers or agents and any profit on the resale of the shares purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. While neither we nor any selling stockholder can presently estimate the amount of such compensation, in compliance with the guidelines of the Financial Industry Regulatory Authority, Inc. ( FINRA ), the aggregate maximum discount, commission, agency fees or other items constituting underwriting compensation to be received by any FINRA member or independent broker-dealer will not exceed 8% of any offering pursuant to this prospectus and any related prospectus supplement. However, it is anticipated that the maximum commission or discount to be received in any particular offering of securities will be less than this amount.

Because selling stockholders may be deemed to be underwriters within the meaning of Section 2(a)(11) of the Securities Act, the selling stockholders will be subject to the prospectus delivery requirements of the Securities Act, which may include delivery through the facilities of NASDAQ pursuant to Rule 153 under the Securities Act.

We have agreed to indemnify certain of the selling stockholders against certain liabilities, including liabilities arising under the Securities Act. The selling stockholders may agree to indemnify any agent, dealer or broker-dealer that participates in transactions involving sales of shares of common stock against certain liabilities, including liabilities arising under the Securities Act.

The resale securities will be sold only through registered or licensed brokers or dealers if required under applicable state securities laws. In addition, in certain states, the resale securities covered hereby may not be sold unless they have been registered or qualified for sale in the applicable state or an exemption from the registration or qualification requirement is available and is complied with.

Under applicable rules and regulations under the Exchange Act, any person engaged in the distribution of the resale securities may not simultaneously engage in market making activities with respect to the common stock for the applicable restricted period, as defined in Regulation M, prior to the commencement of the distribution. In addition, the selling stockholders will be subject to applicable provisions of the Exchange Act and the rules and regulations thereunder, including Regulation M, which may limit the timing of purchases and sales of the common stock by the selling stockholders or any other person. We will make copies of this prospectus available to the selling stockholders and have informed them of the need to deliver a copy of this prospectus to each purchaser at or prior to the time of the sale (including by compliance with Rule 172 under the Securities Act).

Each selling stockholder has informed the Company that it does not have any written or oral agreement or understanding, directly or indirectly, with any person to distribute the shares of our common stock covered by this prospectus. Upon being notified by a selling stockholder that any material arrangement has been entered into with a broker-dealer or underwriter for the sale of shares of common stock through a block trade, special offering, exchange distribution or secondary distribution or a purchase by a broker or dealer, we will file a supplement to this prospectus, if required, pursuant to Rule 424(b) under the Securities Act, disclosing (i) the name of each such selling stockholder and of the participating broker-dealer(s) or underwriter(s), (ii) the number of shares of common stock involved, (iii) the price at which such shares were or will be sold, (iv) the commissions paid or to be paid or discounts or concessions allowed to such broker-dealer(s) or underwriter(s), where applicable, (v) that, as applicable, such broker-dealer(s) or underwriter(s) did not conduct any investigation to verify the information set out or incorporated by reference in this prospectus and (iv) other facts material to the transaction.

We have agreed to use commercially reasonable efforts to keep this prospectus effective until the later of (i) the date by which all of the shares of common stock covered by this prospectus may be sold without volume or manner of sale

restrictions which may be applicable to affiliates under Rule 144, (ii) all of the shares covered by this prospectus have been sold, or (iii) July 22, 2016. There can be no assurance that the selling stockholders will sell any or all of the shares of common stock registered pursuant to the registration statement, of which this prospectus or any related prospectus supplement forms a part.

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**LEGAL MATTERS**

The legality of the issuance of the shares of our common stock and associated preferred stock purchase rights offered hereby is being passed upon by Carroll & Carroll, P.C. Michael C. Carroll, Esq., General Counsel and Secretary of the Company, is a principal of Carroll & Carroll, P.C. If counsel for any selling stockholder or underwriter passes on legal matters in connection with an offering of the common stock described in this prospectus, we will name that counsel in the prospectus supplement to that offering.

**EXPERTS**

The consolidated financial statements of Biolase, Inc. as of December 31, 2013 and 2012 and for each of the three years in the period ended December 31, 2013, and management's assessment of the effectiveness of internal control over financial reporting as of December 31, 2013 incorporated by reference into this prospectus from our Annual Report on Form 10-K for the fiscal year ended December 31, 2013, filed with the SEC on March 17, 2014 and Amendment No. 1 to the Form 10-K filed with the SEC on April 30, 2014, have been so incorporated in reliance upon the reports of BDO USA, LLP, an independent registered accounting firm, incorporated herein by reference, given upon the authority of said firm as experts in accounting and auditing.

**INCORPORATION OF CERTAIN INFORMATION BY REFERENCE**

The SEC allows us to incorporate by reference into this prospectus the information contained in other documents we file with the SEC, which means that we can disclose important information to you by referring you to those documents. Any statement contained in any document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded, for purposes of this prospectus, to the extent that a statement contained in or omitted from this prospectus, or in any other subsequently filed document that 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 prospectus. We incorporate by reference the documents listed below which have been filed by us and any future filings we make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act until the offering is completed:

1. Our Annual Report on Form 10-K, for the year ended December 31, 2013, filed with the SEC on March 17, 2014, as amended by Amendment No. 1 to our Annual Report on Form 10-K, filed with the SEC on April 30, 2014;
2. Our Quarterly Reports on Form 10-Q filed with the SEC on May 12, 2014 and August 8, 2014;
4. Our Current Reports on Form 8-K, filed with the SEC on February 10, 2014, February 13, 2014 (Items 1.01 and 3.02 only), March 6, 2014 (Items 1.01 and 5.02 only), March 14, 2014 (Item 5.02 only), March 17, 2014 (Items 5.02 and 8.01 only), March 21, 2014 (Item 5.02 only), April 22, 2014, June 12, 2014, June 17, 2014 (Item 5.02 only), June 30, 2014, July 17, 2014, July 22, 2014, August 7, 2014 (only that Current Report filed on such date containing Item 5.02), August 14, 2014 and September 2, 2014 (Items 5.02 and 5.07 only);

5. The description of the common stock contained in our Registration Statement on Form 8-A as filed with the SEC on October 30, 1991; and
  
6. The description of the preferred stock purchase rights contained in our Registration Statements on Form 8-A as filed with the SEC on December 29, 1998 and March 28, 2014.

Upon written or oral request, we will provide without charge to each person to whom a copy of the prospectus is delivered a copy of the documents incorporated by reference herein (other than exhibits to such documents unless such exhibits are specifically incorporated by reference herein). You may request a copy of these filings, at no cost, by writing or telephoning us at the following address: Biolase, Inc., 4 Cromwell, Irvine, California 92618, Attention: Investor Relations, telephone: (949) 361-1200.



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**WHERE YOU CAN FIND MORE INFORMATION**

We are subject to the informational requirements of the Exchange Act and in accordance therewith file reports, proxy statements and other information with the SEC. Our filings are available to the public over the Internet at the SEC's website at [www.sec.gov](http://www.sec.gov), as well as at our website at [www.biolase.com](http://www.biolase.com).

You may also read and copy, at prescribed rates, any document we file with the SEC at the Public Reference Room of the SEC located at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at (800) SEC-0330 for further information on the SEC's Public Reference Room.