| CLEVELAND BIOLABS INC |
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| Form 424B3 |
| March 11, 2015 |

| Filed pursuant to Rule 424(b)(3) |
|--|
| Under the Securities Act of 1933, as amended |
| Registration No. 333-202387 |
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| |
| CLEVELAND BIOLABS, INC. |
| 2,071,480 Shares of Common Stock |
| |
| Prospectus |
| |
| This prospectus relates to the public offering of up to 2,071,480 shares of common stock of Cleveland BioLabs, Inc., including 264,318 outstanding shares, 239,135 shares issuable upon conversion of shares of Preferred Stock, and |
| 1,568,027 shares issuable upon exercise of warrants. |
| |
| The selling stockholders may sell common stock from time to time in the principal market on which the stock is traded at the prevailing market price or in negotiated transactions. |
| |
| We will not receive any of the proceeds from the sale of common stock by the selling stockholders. We will pay the |
| expenses of registering these shares. |
| Investing in our common stock involves a high degree of risk. You should consider carefully the risk factors |
| beginning on page 7 of this prospectus and as described in our most recent Annual Report on Form 10-K filed with the SEC on February 27, 2015 before purchasing any of the shares offered by this prospectus. |
| men are 520 on represent 21, 2015 before purchasing any of the shares officied by this prospectus. |

Our common stock is listed on the NASDAQ Capital Market under the symbol "CBLI". The last reported sale price of

our common stock on the NASDAQ Capital Market on March 10, 2015, was \$3.57 per share.

We may amend or supplement this prospectus from time to time by filing amendments or supplements as required. You should read the entire prospectus and any amendments or supplements 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 March 11, 2015.

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You may only rely on the information contained in this prospectus or that we have referred you to. We have not authorized anyone to provide you with different information. This prospectus does not constitute an offer to sell or a solicitation of an offer to buy any securities other than the common stock offered by this prospectus. This prospectus does not constitute an offer to sell or a solicitation of an offer to buy any common stock in any circumstances in which such offer or solicitation is unlawful. Neither the delivery of this prospectus nor any sale made in connection with this prospectus shall, under any circumstances, create any implication that there has been no change in our affairs since the date of this prospectus or that the information contained by reference to this prospectus is correct as of any time after its date.

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WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and special reports, along with other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's website at http://www.sec.gov. You may also read and copy any document we file at the SEC's Public Reference Room at 100 F Street, NE, Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the Public Reference Room.

This prospectus is part of a registration statement on Form S-3 that we filed with the SEC to register the securities offered hereby under the Securities Act of 1933, as amended. This prospectus does not contain all of the information included in the registration statement, including certain exhibits and schedules. You may obtain the registration statement and exhibits to the registration statement from the SEC at the address listed above or from the SEC's internet site.

INCORPORATION OF DOCUMENTS BY REFERENCE

The SEC allows us to "incorporate by reference" information into this prospectus. This means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information that we incorporate by reference is considered to be part of this prospectus. Because we are incorporating by reference our future filings with the SEC, this prospectus is continually updated and those future filings may modify or supersede some or all of the information included or incorporated in this prospectus. This means that you must look at all of the SEC filings that we incorporate by reference to determine if any of the statements in this prospectus or in any document previously incorporated by reference have been modified or superseded. This prospectus incorporates by reference the documents listed below and any future filings we will make with the SEC under Sections 13(a), 14 or 15(d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), (i) after the date of the initial registration statement and prior to effectiveness of the registration statement, and (ii) after the date of this prospectus, until the selling stockholders sells all of our securities registered under this prospectus:

our Annual Report on Form 10-K for the fiscal year ended December 31, 2014, filed with the SEC on February 27, 2015;

our Current Reports on Form 8-K filed with the SEC on January 13, 2015, January 27, 2015, January 28, 2015, February 4, 2015, February 9, 2015, and February 20, 2015;

our Definitive Proxy Statement on Schedule 14A filed with the SEC on March 5, 2015; and

the description of our common stock, which is contained in the registration statement on Form 8-A filed with the SEC on July 20, 2006 (File No. 001-32954), including any amendments or reports filed for the purpose of updating that description.

Notwithstanding the foregoing, information furnished under Items 2.02 and 7.01 of any Current Report on Form 8-K, including the related exhibits, is not incorporated by reference in this prospectus.

The information about us contained in this prospectus should be read together with the information in the documents incorporated by reference. You may request a copy of any or all of these filings, at no cost, by writing or telephoning us at:

Cleveland BioLabs, Inc.

73 High Street

Buffalo, New York 14203

Attention: Corporate Secretary

Telephone: (716) 849-6810

SUMMARY

This summary highlights information contained elsewhere in this prospectus. You should read the entire prospectus carefully, including the section entitled "Risk Factors" before deciding to invest in our common stock. In this prospectus, unless otherwise stated or the context otherwise requires, the terms "Cleveland BioLabs" and "CBLI" refer to Cleveland BioLabs, Inc. and its wholly owned subsidiary BioLab 612, LLC, but not its consolidated subsidiary Panacela Labs, Inc. or its unconsolidated joint venture, Incuron, LLC. The "Company," "we," "us" and "our" refer to Cleveland BioLabs, Inc. together with its consolidated subsidiaries BioLabs 612, LLC and Panacela Labs, Inc. and unconsolidated joint venture, Incuron, LLC. Each of the trade names or service marks appearing or incorporated by reference in this prospectus are the property of their respective owners.

The Company

We are an innovative biopharmaceutical company seeking to develop first-in-class pharmaceuticals designed to address diseases with significant unmet medical need. We combine our proven scientific expertise and our depth of knowledge about our products' mechanisms of action into a passion for developing drugs to save lives. Our programs are focused on the implementation of novel pharmacological approaches to control cell death. Our proprietary drug candidates act via unique mechanisms that are designed to kill cancer and protect healthy cells. We conduct business in the United States and the Russian Federation. CBLI and our joint ventures, Incuron, LLC, or Incuron, and Panacela Labs, Inc., or Panacela, each have worldwide development and commercialization rights to product candidates in development, subject to certain financial obligations to our current licensors. CBLI's most advanced product candidate is entolimod, which we are developing as a radiation countermeasure and an immunotherapy for oncology and other indications. Our primary product development programs and their respective development stages are illustrated below:

CBLI

PRODUCT

PIVOTAL HUMAN
DISCOVERY PRECLINICAL ANIMAL
STUDIES
CONVERSION

Indication

ENTOLIMOD

Acute Radiation Syndrome

| PRODUCT | |
|---------------------------------------|---|
| Indication | DISCOVERY PRECLINICAL PHASE PHASE III |
| ENTOLIMOD-Oncolo | |
| Advanced Solid Tumors CBLB612 | |
| HSC Mobilization *HSC means hematopoi | etic stem cell |
| Incuron | |
| | |
| PRODUCT | |
| | DISCOVERY PRECLINICAL PHASEPHASE II III |
| CBL0137 | |
| Advanced Solid Tumors | |
| Panacela | |
| PRODUCT | |
| Indication MOBILAN | DISCOVERY PRECLINICAL PHASEPHASE II III |

Entolimod is a Toll-like receptor 5, or TLR5, agonist, which we are developing as a radiation countermeasure for prevention of death from Acute Radiation Syndrome, or ARS, and as an oncology drug. We believe that entolimod is the most efficacious radiation countermeasure currently in development. Following is a summary of the clinical development of entolimod to date and regulatory status:

Entolimod is being developed under the U.S. Food & Drug Administration's, or FDA's, Animal Efficacy Rule, or the Animal Rule, for the indication of reducing the risk of death following exposure to potentially lethal irradiation occurring as a result of a radiation disaster (see "Government Regulation – Animal Rule"). If approved, we anticipate that entolimod will be administered within 25 hours following radiation exposure. We have completed two dose escalation clinical studies designed to evaluate the safety, pharmacokinetics and pharmacodynamics in a total of 150 healthy volunteers. Administration of entolimod was not associated with irreversible harm at any of the doses evaluated in these two studies. We have completed a Good Laboratory Practices, or GLP, randomized, blinded, placebo-controlled, pivotal study designed to evaluate the dose-dependent effect of entolimod on survival and biomarker induction in 179 non-human primates exposed to 7.2 Gy total body irradiation when entolimod or placebo were administered at 25 hours after radiation exposure. We have completed a GLP, randomized, open-label, placebo-controlled, pivotal study designed to evaluate the dose-dependent effect of entolimod on biomarker induction in 160 non-irradiated non-human primates. We met with the FDA in July 2014 to present our human dose-conversion and to discuss our intent to submit a pre-Emergency Use Authorization, or pre-EUA. The FDA confirmed that our existing efficacy and safety data and animal-to- human dose conversion are sufficient to proceed with a pre-EUA submission and agreed to accept a pre-EUA submission for review. We are currently preparing the pre-EUA dossier, which we anticipate filing in the first half of 2015. If the FDA authorizes the application, then Federal agencies are free to procure drug product to stockpile and distribute in the event of an emergency, i.e. prior to the drug being formally approved by FDA under a Biologics License Application, or BLA.

In January 2015, we announced that we had received notice that our proposal application to support further development of entolimod as a medical radiation countermeasure was recommended for funding subject to negotiations by the Department of Defense, or DoD, office of Congressionally Directed Medical Research Programs, or CDMRP. The proposal application aims to conduct several pivotal animal efficacy studies required by the FDA for submission of a BLA. The Company's receipt of this award is subject to successful negotiations and availability of funds.

Additionally, we completed enrollment in a Phase 1 open-label, dose-escalation trial of entolimod in patients with advanced cancer in the United States and began dosing in a small expansion study in the Russian Federation, which is enrolling additional patients at the highest doses achieved in the US study. Both studies include evaluation of immune cell response to administrations of entolimod. Preliminary evaluations of the completed study in the United States indicate that the tolerability profile in patients with advanced cancer was similar to that observed in two previously conducted studies in 150 healthy volunteers. Initial assessments of immunological response were consistent with TLR5 activation. Early analyses indicate that stable disease was observed in several patients with heavily pretreated cancers.

CBLB612 is a proprietary compound based upon a natural activator of another tissue-specific component of the innate immune system, the TLR2/TLR6 heterodimeric receptor. CBLB612 is a pharmacologically optimized synthetic molecule that structurally mimics naturally occurring lipopeptides of Mycoplasma (a genus of parasitic bacteria) and activates NF-kB pro-survival and immunoregulatory signaling pathways via specific binding to TLR2 on a subset of body tissues and cell types that express this receptor. Preclinical studies have shown that the efficacy of CBLB612 exceeds that of granulocyte colony-stimulating factor, or G-CSF (Amgen's Neupogen®), the market-leading drug used for stimulation of white blood cell regeneration. CBLB612's hematopoietic stem cell, or HSC, stimulatory activity outweighed that of G-CSF when the drugs were administered either as monotherapies, in either mice or non-human primates, or in combination with Plerixafor (Sanofi's Mozobil®, a chemokine receptor antagonist approved by the FDA as an HSC mobilizer). However, the highest degree of HSC mobilization was observed when CBLB612 was added to that combination. The strong synergistic effect of this triple drug combination provides further support for development of CBLB612 as a valuable stem cell mobilizing agent. In October 2014, we initiated a Phase 1, single-center, blind, placebo-controlled, single ascending dose study in the Russian Federation to evaluate the safety and tolerability of CBLB612 in healthy volunteers and measure response of various HP stem and progenitor cell types in order to gain a preliminary estimate of the drug's HSC stimulatory efficacy under a 139 million ruble matching funds development contract that we received in July 2012 from MPT (see Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations"). We licensed CBLB612 to Zhejiang Hisun Pharmaceutical Co., Ltd. for the territories of China, Taiwan, Hong Kong and Macau. We have rest-of-world development and commercialization rights to CBLB612.

CBL0137 is the lead product candidate of our unconsolidated joint venture Incuron. CBL0137 is a small molecule with a multi-targeted mechanism of action that may be broadly useful for the treatment of many different types of cancer. CBL0137 may offer greater efficacy and substantially lower risk for the development of drug resistance than conventional chemotherapeutic agents. CBL0137 inhibits Nuclear Factor kappa-B, or NF- kB, Heat Shock Factor Protein-1, or HSF-1, and Hypoxia-inducible factor 1-alpha, or HIF1 alpha; these are transcription factors that are important for the viability of many types of tumors. The drug also activates tumor suppressor protein p53 by modulating intracellular localization and activity of chromatin remodeling complex Facilitates Chromatin Transcription, or FACT. CBL0137 has been shown to be efficacious in pre-clinical models of colon, lung, breast, renal, pancreatic, head and neck and prostate cancers; melanoma; glioblastoma; and neuroblastoma. It has also been shown to be efficacious in pre-clinical models of hematological cancers, including lymphoma, leukemia and multiple myeloma.

In the Russian Federation, Incuron is currently enrolling patients with advanced, resistant solid tumors to a Phase 1, multi-center, single-agent, dose-escalation study evaluating the oral administration of CBL0137. In the United States, Incuron is also currently enrolling patients with advanced resistant solid tumors to a Phase 1, multi-center, single-agent, dose-escalation study evaluating the intravenous administration of CBL0137. These studies are designed to investigate the safety, pharmacokinetics, pharmacodynamics, and antitumor activity of CBL0137. Incuron is conducting these parallel evaluations of oral and intravenous routes of administration and continuous low-dose versus interrupted high-dose schedules to reduce the company's developmental risk by fully characterizing the clinical pharmacology of CBL0137. The design of a new Phase 1 dose-escalation and expansion study of CBL0137 in hematological malignancies was reviewed with the FDA in December 2014. Incuron is planning to initiate a multicenter study of CBL0137 in patients with hematological malignancies in 2015. This clinical trial is intended to assess the safety, pharmacology, and anticancer activity of CBL0137 in several types of hematological cancers.

In January 2015, updates on clinical progress with Curaxin CBL0137 were announced. A formal interim analysis of the 19 patients enrolled in the first six cohorts of the ongoing oral administration study indicated that the study medication was well tolerated at all investigated dose levels. The observation of drug exposure in plasma documented high oral bioavailability (typically estimated to be $\geq 50\%$). To date, no dose-limiting toxicities have been observed with either oral or intravenous administration through the highest CBL0137 dose levels tested. Heavily pretreated patients with advanced cancers of the esophagus, colon, breast, cervix, and prostate have had stable disease for periods ranging from 4 to 6 months. Peripheral blood mononuclear cells, or PBMCs, from evaluable blood samples have shown pharmacodynamic effects consistent with the expected mechanism of action of CBL0137.

Incuron holds worldwide development and commercialization rights to CBL0137. As of December 31, 2014, BioProcess Capital Ventures, or BCV, owned 53.04% of Incuron and we owned 46.96% and as more fully described in Note 5 to the consolidated financial statements, we deconsolidated Incuron on November 25, 2014 as we no longer maintained a controlling equity interest, and commenced accounting for our investment in Incuron using the equity method.

Mobilan is the lead product candidate of our consolidated joint venture Panacela. Mobilan is a nanoparticle-formulated recombinant non-replicating adenovirus that directs expression of TLR5 and its agonistic ligand, flagellin. In pre-clinical studies, delivery of Mobilan to tumor cells results in constitutive autocrine TLR5 signaling and strong activation of the innate immune system with subsequent development of adaptive anti-tumor immune responses. Mobilan is in the pre-clinical stage of development as a universal anti-cancer therapy. In November 2014, Panacela filed an IND in the Russian Federation under a 149 million ruble matching funds development contract that it received in October 2013 from MPT (see Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations"). Panacela holds worldwide development and commercialization rights to Mobilan. As of December 31, 2014, we owned 57.78% of Panacela.

Our Partners

In December 2009, we entered into our Incuron joint venture with BioProcess Capital Partners, or BCP, to develop Curaxin compounds for treatment of oncological diseases. According to the terms of the agreement, we transferred rights in the Curaxin molecules to a new joint venture company, Incuron, in which BCP agreed to cause their affiliated fund, BCV, to contribute an aggregate of 549,497,000 Russian rubles (approximately \$16.9 million) to support development of the compounds. As of September 30, 2014, Incuron had received all committed funding. On November 25, 2014, we transferred 3.05% of the Company's participation interest in Incuron to BCV. The transfer of 3.05% of our participation interest was made pursuant to the Participation Agreement dated December 9, 2009, as amended by the First and Third Amendments to Participation Agreement dated April 13, 2010 and June 17, 2014, respectively, that governs the joint ownership of Incuron by the Company and BCV. As described in the Form 8-K filed by the Company on December 2, 2014, as a result of the transfer of 3.05% of our participation interests to BCV, the Company's participation interest in Incuron decreased to 46.96%, BCV's participation interest increased to 53.04%.

In October 2011, we entered into our Panacela joint venture with Rusnano to carry out a complete cycle of development and commercialization in the Russian Federation for the treatment of oncological, infectious or other diseases. We invested \$3.0 million in Panacela preferred shares and warrants, and, together with certain third-party owners, assigned and/or provided exclusive licenses, as applicable, to Panacela to provide Panacela with worldwide development and commercialization rights to five preclinical product candidates in exchange for Panacela common shares. Rusnano invested \$9.0 million in Panacela preferred shares and warrants. In 2013, Rusnano loaned Panacela \$1.5 million through a convertible term loan, or the Panacela Loan, and revised their original investment agreement to remove the predetermined development milestones and timelines for further investment and provide that Rusnano may invest an additional \$15.5 million at their option. As of December 31, 2014, we had an ownership stake of 57.78% in Panacela.

Additionally, we leverage close development relationships with Roswell Park Cancer Institute and The Cleveland Clinic. Together, our team of legal entities, financial partners and other collaborators engage in the collective development efforts necessary to advance all of our product candidates towards marketing approval and commercialization.

Corporate Information

We were incorporated in Delaware on June 5, 2003. We conduct operations through several subsidiaries, including our wholly-owned subsidiary, BioLab 612, LLC, our consolidated joint venture Panacela Labs, Inc. and our unconsolidated joint venture, Incuron, LLC.

Our principal executive offices are located at 73 High Street, Buffalo, New York 14203. Our telephone number is (716) 849-6810. Our website address is www.cbiolabs.com. We have included our website address as an inactive textual reference only. The information contained on, or that can be accessed through, our website is not a part of this prospectus.

Recent Developments

On February 4, 2015, we entered into a Securities Purchase Agreement (the "Purchase Agreement") with certain institutional investors providing for the issuance and sale by the Company of 572,205 shares (the "Shares") of the Company's common stock at an offering price of \$3.00 per share (the "Share Offering") and Series B pre-funded warrants to purchase an aggregate of 594,688 shares of common stock (the "Pre-Funded Warrants,") (the "Pre-Funded Warrants Offering"). The Shares and the Pre-Funded Warrants were offered by the Company pursuant to an effective shelf registration statement on Form S-3, which was initially filed with the Securities and Exchange Commission on

December 10, 2013 and was declared effective on January 10, 2014 (File No. 333-192755).

In a concurrent private placement (the "Private Placement Transaction" and, together with the Share Offering and the Pre-Funded Warrants Offering, the "Offerings"), we sold to the purchasers of our Shares and Pre-Funded Warrants shares of our Series A Convertible Preferred Stock (the "Preferred Stock") convertible into 239,135 shares of our common stock. Gross proceeds from the Offerings amounted to approximately \$4.2 million before deducting placement agent fees and expenses. In addition, we issued a Series A warrant (the "Series A Warrants" and, together with the Shares, the Pre-Funded Warrants and the Preferred Stock, the "Securities") to purchase one share of our common stock for each share of common stock purchased or pre-funded in the Offerings and each share of Series A Convertible Preferred Stock purchased in the concurrent private placement. The Series A Warrants cover, in the aggregate, 1,406,028 shares of common stock and become exercisable six months following the date of issuance at an exercise price of \$3.64 and expire six years from the date they become exercisable.

Pursuant to the terms of the Placement Agency Agreement between the Company and Ladenburg Thalmann & Co. Inc. ("Ladenburg Thalmann") dated February 4, 2015, Ladenburg Thalmann had no obligation to buy any of the Securities or to arrange for the purchase or sale of any specific number or dollar amount of Securities. The Company agreed to pay Ladenburg Thalmann a fee equal to 8% on aggregate gross proceeds in this offering, excluding the proceeds, if any, from the exercise of the Series A Warrants. The Offerings closed on February 6, 2015 (the "Closing").

On February 6, 2015, the Company amended the terms of the Securities as described below.

Pursuant to the terms of the Purchase Agreement, the Company agreed that during the 75-day period following execution of the Purchase Agreement, the Company will not issue (or enter into any agreement to issue) any shares of common stock or common stock equivalents, subject to certain exceptions including securities issuable pursuant to the Purchase Agreement or pursuant to exercises, exchanges or conversions of the Company's outstanding securities and issuances pursuant to acquisitions or strategic transactions. In addition, pursuant to the Purchase Agreement, the purchasers in the Offerings have the right, until one year after shareholder approval for the Offerings is obtained, to participate in subsequent financings by the Company in an amount up to 50% of the financing in the aggregate subject to certain exceptions as specified in the Purchase Agreement. Under the terms of the Securities, until shareholder approval has been obtained, the Company cannot issue any Shares and the investors in the Offerings cannot exercise the Pre-Funded Warrants into common stock, nor convert the Preferred Stock into common stock. On February 6, 2015, the Company and investors amended the terms of the Securities to also include the Series A Warrants from being exercised until shareholder approval has been obtained.

On February 5, 2015, the Company filed a Certificate of Designation of Preferences, Rights and Limitations of Series A Convertible Preferred Stock with the Secretary of State of the State of Delaware. The number of shares of Preferred Stock designated is 718 and each share of Preferred Stock has a stated value equal to \$1,000. On February 6, 2015, the Company filed a Certificate of Amendment to the Certificate of Designation of Preferences, Rights and Limitations of Series A Convertible Preferred Stock (as amended, the "Certificate of Designation") with the Secretary of State of the State of Delaware.

Except as otherwise provided in the Certificate of Designation or as otherwise required by law, the Preferred Stock shall have no voting rights. However, as long as any shares of Preferred Stock are outstanding, the Company shall not, without the affirmative vote of the holders of a majority of the then outstanding shares of the Preferred Stock, (a) alter or change adversely the powers, preferences or rights given to the Preferred Stock or alter or amend the Certificate of Designation, (b) authorize or create any class of stock ranking as to dividends, redemption or distribution of assets upon a Liquidation (as defined therein) senior to, or otherwise pari passu with, the Preferred Stock, (c) amend its certificate of incorporation or other charter documents in any manner that adversely affects any rights of the holders, (d) increase the number of authorized shares of Preferred Stock, or (e) enter into any agreement with respect to any of the foregoing.

Upon any liquidation, dissolution or winding-up of the Company, whether voluntary or involuntary (a "Liquidation"), the holders shall be entitled to receive out of the assets, whether capital or surplus, of the Company an amount equal to the Stated Value, plus any other fees, liquidated damages or dividends then due and owing thereon under the Certificate of Designation, for each share of Preferred Stock before any distribution or payment shall be made to the holders of any junior securities, and if the assets of the Company shall be insufficient to pay in full such amounts, then the entire assets to be distributed to the holders shall be ratably distributed among the holders in accordance with the respective amounts that would be payable on such shares if all amounts payable thereon were paid in full.

The conversion price for the Preferred Stock shall equal \$3.00, subject to certain terms as described in the Certificate of Designation.

In addition, until the date that (i) shareholder approval has been obtained and deemed effective, (ii) the Pre-funded Warrants are no longer outstanding, and (iii) there is an effective registration statement registering the resale of all of the shares underlying the Preferred Stock, we will be required to continue complying with negative covenants that limit our ability to incur debt, incur liens, amend our charter documents, repurchase securities, pay dividends or enter into related party transactions, which could adversely impact our operations.

About this Offering

This prospectus includes the resale of (i) 239,135 shares of common stock issuable upon conversion of Preferred Stock, and (ii) 1,406,028 shares of common stock issuable upon exercise of Series A Warrants.

This prospectus also includes the resale of an additional 426,317 shares of common stock consisting of (i) 264,318 shares of common stock sold in a private placement that closed on June 20, 2014 (the "June 2014 Private Placement"), (ii) 154,186 shares of common stock issuable upon exercise of warrants sold in the June 2014 Private Placement, and (iii) 7,813 shares of common stock issuable upon exercise of warrants held by Hercules Technology II, L.P. ("Hercules"), issued on September 30, 2013 in connection with the loan and security agreement entered into between Hercules and the Company. The warrants issued pursuant to the June 2014 Private Placement may be exercised for cash or on a cashless basis, have a per share exercise price of \$11.20 and a five year term. The warrants held by Hercules may be exercised for cash or on a cashless basis, have a per share exercise price of \$10.10 and a five year term.

RISK FACTORS

Investing in our securities involves a high degree of risk. Before making an investment decision, you should consider carefully the risks, uncertainties and other factors described in our most recent Annual Report on Form 10-K, as supplemented and updated by subsequent quarterly reports on Form 10-Q and current reports on Form 8-K that we have filed or will file with the SEC, which are incorporated by reference into this prospectus.

Our business, affairs, prospects, assets, financial condition, results of operations and cash flows could be materially and adversely affected by these risks. For more information about our SEC filings, please see "Where You Can Find More Information."

FORWARD-LOOKING STATEMENTS

This prospectus and the documents incorporated by reference herein contain forward-looking statements within the meaning of Section 27A of the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act, that involve substantial risks and uncertainties. All statements, other than statements of historical fact, including statements regarding our strategy, future operations, future financial position, future revenues, projected costs, prospects, plans and objectives of management, are forward-looking statements. The words "anticipate," "believe," "continue," "should," "estimate," "expect," "intend," "may," "plan," "project," "will," and similar expressions are in

identify forward-looking statements, although not all forward-looking statements contain these identifying words.

We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements we make. We have included important factors in the cautionary statements included and incorporated by reference in this prospectus that we believe could cause actual results or events to differ materially from the forward-looking statements that we make. See the section entitled "Risk Factors" herein for more information. You should consider these factors and other cautionary statements made in this prospectus and in the documents we incorporate by reference as being applicable to all related forward-looking statements wherever they appear in the prospectus and in the documents incorporated by reference. Unless specifically indicated, our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures or investments we may make. We do not assume any obligation to update any forward-looking statements.

USE OF PROCEEDS

This prospectus relates to shares of our common stock that may be offered and sold from time to time by the selling stockholders. We will not receive any of the proceeds resulting from the sale of common stock by the selling stockholder.

SELLING STOCKHOLDERS

This prospectus relates to the offering by the selling stockholders of up to 2,071,480 shares of common stock, including 264,318 outstanding shares, 239,135 shares issuable upon conversion of shares of Preferred Stock, and 1,568,027 shares issuable upon exercise of warrants.

The following table sets forth, based on information provided to us by the selling stockholders or known to us, the name of the selling stockholders, the nature of any position, office or other material relationship, if any, which the selling stockholders have had, within the past three years, with us or with any of our predecessors or affiliates, and the number of shares of our common stock beneficially owned by the selling stockholders before this offering. The number of shares owned are those beneficially owned, as determined under the rules of the SEC, and the information is not necessarily indicative of beneficial ownership for any other purpose. Under these rules, beneficial ownership includes any shares of common stock as to which a person has sole or shared voting power or investment power and any shares of common stock which the person has the right to acquire within 60 days through the exercise of any option, warrant or right, through conversion of any security or pursuant to the automatic termination of a power of attorney or revocation of a trust, discretionary account or similar arrangement. No selling stockholder is a broker-dealer or an affiliate of a broker-dealer.

We have assumed all shares of common stock reflected on the table will be sold from time to time in the offering covered by this prospectus. Because the selling stockholders may offer all or any portions of the shares of common stock listed in the table below, no estimate can be given as to the amount of those shares of common stock covered by this prospectus that will be held by the selling stockholder upon the termination of the offering. As of February 27, 2015, there were 3,435,354 shares of our common stock issued and outstanding.

| | Number of | | Number of | Percentage |
|---------------------------|--------------|------------|--------------|--------------|
| Selling Stockholder | Shares | Number | Shares | of Shares |
| | Beneficially | of | Beneficially | Beneficially |
| | Owned | Shares | Owned | Owned |
| | Before | Offered | After | After |
| | Offering | | Offering | Offering |
| Alpha Capital Anstalt (1) | 381,282 (9) | 822.581(2) | | |