

Cryoport, Inc.
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Registration No. 333-215776

PROSPECTUS SUPPLEMENT
(To Prospectus dated February 9, 2017)

\$35,000,000

Common Stock

We have entered into a sales agreement with Jefferies LLC, or Jefferies, relating to shares of our common stock offered by this prospectus supplement and the accompanying prospectus. In accordance with the terms of the sales agreement, we may offer and sell shares of our common stock having an aggregate offering price of up to \$35,000,000 from time to time through Jefferies, acting as agent.

Our common stock is traded on the Nasdaq Capital Market under the symbol CYRX. On August 23, 2018, the last reported sales price for our common stock was \$13.48 per share.

Sales of our common stock, if any, under this prospectus may be made in sales deemed to be an at the market offering as defined in Rule 415(a)(4) promulgated under the Securities Act of 1933, as amended, or the Securities Act.

Jefferies is not required to sell any specific amount, but will act as our sales agent using commercially reasonable efforts to sell on our behalf all of the shares of common stock requested to be sold by us, consistent with its normal trading and sales practices, on mutually agreed terms between Jefferies and us. There is no arrangement for funds to be received in any escrow, trust or similar arrangement.

Jefferies will be entitled to compensation at a fixed commission rate of 3.0% of the gross sales price per share sold. In connection with the sale of our common stock on our behalf, Jefferies will be deemed to be an underwriter within the meaning of the Securities Act and the compensation will be deemed to be underwriting commissions or discounts.

Investing in our common stock involves significant risks. See Risk Factors beginning on page S-5 of this prospectus supplement and in the documents incorporated by reference into this prospectus supplement and the accompanying prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the accuracy or adequacy of this prospectus supplement. Any representation to the contrary is a criminal offense.

Jefferies

The date of this prospectus supplement is August 24, 2018

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You should rely only on the information incorporated by reference or provided in this prospectus supplement and the accompanying prospectus. Neither we nor Jefferies have authorized anyone to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. This prospectus supplement and the accompanying prospectus do not constitute an offer to sell, or a solicitation of an offer to purchase, the securities offered by this prospectus supplement and the accompanying prospectus in any jurisdiction where it is unlawful to make such offer or solicitation. You should assume that the information contained in this prospectus supplement or the accompanying prospectus, or any document incorporated by reference in this prospectus supplement or the accompanying prospectus, is accurate only as of the date of those respective documents. Neither the delivery of this prospectus supplement nor any distribution of securities pursuant to this prospectus supplement shall, under any circumstances, create any implication

that there has been no change in the information set forth or incorporated by reference into this prospectus supplement or in our affairs since the date of this prospectus supplement. Our business, financial condition, results of operations and prospects may have changed since that date.

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ABOUT THIS PROSPECTUS SUPPLEMENT

This document is in two parts. The first part is this prospectus supplement, which describes the specific terms of this offering of securities. The second part is the accompanying prospectus, which provides more general information, some of which may not apply to this offering and some of which may have been supplemented or superseded by information in this prospectus supplement or documents incorporated or deemed to be incorporated by reference in this prospectus supplement that we filed with the U.S. Securities and Exchange Commission, or the SEC, subsequent to the date of the prospectus. To the extent that there is any conflict between the information contained in this prospectus supplement, on the one hand, and the information contained in the accompanying prospectus or any document incorporated by reference herein or therein, on the other hand, you should rely on the information in this prospectus supplement.

This prospectus supplement is part of a registration statement that we filed with the SEC using a shelf registration process. Under the shelf registration process, we may from time to time offer and sell any combination of the securities described in the accompanying prospectus up to a total dollar amount of \$50,000,000, of which this offering is a part.

This prospectus supplement, the accompanying prospectus and the information incorporated herein and therein by reference includes trademarks, service marks and trade names owned by us or other companies. All trademarks, service marks and trade names included or incorporated by reference into this prospectus supplement or the accompanying prospectus are the property of their respective owners.

Unless the context indicates otherwise, in this prospectus supplement and the accompanying prospectus the terms, Cryoport, the Company, we, our, or us refer to Cryoport, Inc. and its consolidated subsidiaries.

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FORWARD-LOOKING INFORMATION

This prospectus supplement and the accompanying prospectus, including the documents that we incorporate by reference, contain forward-looking statements. All statements other than statements of historical fact, including statements regarding our future results of operations and financial position, business strategy and plans and objectives of management for future operations, are forward-looking statements. These statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements.

In some cases, you can identify forward-looking statements by terms such as may, will, should, expects, plans, anticipates, could, intends, target, projects, contemplates, believes, estimates, predicts, potential, and the negative of these terms or other similar words. These statements are only predictions. We have based these forward-looking statements largely on our current expectations and projections about future events and financial trends that we believe may affect our business, financial condition and results of operations. We discuss many of the risks in greater detail under the heading Risk Factors in this prospectus supplement and in our most recent Annual Report on Form 10-K, which you should review carefully. Also, these forward-looking statements represent our estimates and assumptions only as of the date of this prospectus supplement. Forward-looking statements include, but are not necessarily limited to, those relating to:

- our intention to introduce new products or services;
- our expectations about securing strategic relationships with global couriers or large clinical research organizations;
- our future capital needs;
- results of our research and development efforts; and
- approval of our patent applications.

Forward-looking statements are subject to risks and uncertainties, certain of which are beyond our control. Actual results could differ materially from those anticipated as a result of the factors described in Risk Factors in this prospectus supplement, the accompanying prospectus, and detailed in our other SEC filings incorporated by reference herein, including among others:

- the effect of regulation by United States and foreign governmental agencies;
- research and development efforts, including delays in developing, or the failure to develop, our products;
- the development of competing or more effective products by other parties;
- uncertainty of market acceptance of our products;
- errors in business planning attributable to insufficient market size or segmentation data;
- problems that we may face in manufacturing, marketing and distributing our products;
- problems that we may encounter in further development of Cryoport Express® Solutions, which includes the cloud-based logistics management software branded as Cryoport™;
- our inability to raise additional capital when needed;
- delays in the issuance of, or the failure to obtain, patents for certain of our products and technologies;

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problems with important suppliers and strategic business partners; and
difficulty or delays in establishing marketing relationships with international couriers.

Because of these risks and uncertainties, the forward-looking events and circumstances discussed in this prospectus supplement and the accompanying prospectus might not transpire. Except for our ongoing obligations to disclose material information as required by the federal securities laws, we undertake no obligation to release publicly any revisions to any forward-looking statements to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events. All of the above factors are difficult to predict, contain uncertainties that may materially affect our actual results and may be beyond our control. New factors emerge from time to time, and it is not possible for our management to predict all of such factors or to assess the effect of each factor on our business. You are advised to consult any further disclosures we make on related subjects in the reports we file with the SEC.

This prospectus supplement and the accompanying prospectus, including the documents we incorporate by reference, also contain estimates and other industry and statistical data developed by independent parties and by us relating to market size, growth, and segmentation of markets. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. While we believe the data referred to in this prospectus supplement and the accompanying prospectus, including the documents we incorporate by reference, to be reliable, industry and statistical data is subject to variations and cannot be verified due to limits on the availability and reliability of data inputs, the voluntary nature of the data gathering process and other limitations and uncertainties inherent in any statistical survey. We have not independently verified these estimates generated by independent third parties. In addition, projections, assumptions, and estimates of our future performance and the future performance of the industries in which we operate are necessarily subject to a high degree of uncertainty and risk due to a variety of factors, including those described in Risk Factors and elsewhere in this prospectus supplement and the accompanying prospectus. These and other factors could cause results to differ materially from those expressed in the estimates made by the independent parties and by us.

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PROSPECTUS SUPPLEMENT SUMMARY

This summary highlights selected information about our Company, this offering and information appearing elsewhere in this prospectus supplement, in the accompanying prospectus, and in the documents we incorporate by reference. This summary is not complete and does not contain all the information that you should consider before investing in our common stock. You should read this entire prospectus supplement and the accompanying prospectus carefully, including the Risk Factors contained in this prospectus supplement beginning on page S-5, and the risk factors, financial statements and notes incorporated by reference herein, before making an investment decision. This prospectus supplement may add to, update or change information in the accompanying prospectus.

About Cryoport

We provide fully integrated, temperature-controlled logistics solutions to the life sciences industry through a seamless combination of proprietary packaging, information technology, and specialized temperature-controlled logistics knowhow. Our competencies and capabilities are used to develop solutions that are customized to our client's requirements. Our solutions integrate vital analytics, including chain-of-condition and chain-of-custody information, into a single data stream. We provide advanced, powerful, comprehensive and reliable technology-centric alternatives to traditional temperature-controlled distribution/logistics solutions for the life sciences industry.

Our services are utilized for temperature-controlled shipping, storage and information in the life sciences industry, which includes personalized medicine, immunotherapies, cellular therapies, CAR T-cell therapies, stem cell therapies, cell lines, vaccines, diagnostic materials, semen, eggs, embryos, cord blood, bio-pharmaceuticals, infectious substances, and other commodities that require continuous exposure to certain ranges of precision-controlled temperatures. As part of our services, our technologies provide the ability for us and/or our client, to monitor location and other specified critical variables for each shipment in real time. Information is recorded and archived for each shipment for scientific, quality assurance and regulatory purposes. This information provides an audit trail that can verify the in-shipment condition of the life sciences commodity, material, product, vaccine or therapy being shipped. Cryoport's systems are designed to support clinical trials, Biologics License Applications (BLA), Investigational New Drug Applications and New Drug Applications (NDA) with the United States Food and Drug Administration (FDA).

Cryoport solutions support FDA approved commercial biologic product distribution in the United States and government approved products in other jurisdictions globally, such as those in the EMEA (Europe, Middle East and Africa) and Asia-Pacific regions.

One of the most important features of our Cryoport Express® Solutions is our sophisticated, cloud-based, logistics management platform, which is branded as the Cryoport™. The Cryoport™ supports the management of shipments through a single interface, which includes order entry, document preparation, customs documentation, courier management, real-time shipment tracking, issue resolution, and regulatory compliance requirements. In addition, it provides unique and incisive information dashboards and validation documentation for every shipment through data collected by the SmartPak II™ Condition Monitoring System (SmartPak II™). The Cryoport™ records and retains a fully documented regulatory history of all Cryoport Express® Shippers, including chain-of-custody and chain-of-condition information for each shipment, which is used to ensure the quality, safety, efficacy and controlled conditions to ensure that the stability of shipped biologic commodities are maintained throughout the shipping cycle. At the client's option, recorded information is archived, allowing the client to meet exacting requirements necessary for scientific work and for proof of regulatory compliance during the logistics process.

Our Cryoport Express® Solutions include a family of Cryoport Express® Shippers including liquid nitrogen dry vapor shippers and C3™ Shippers (Cryoport. Certified. Cool.), which are phase-change shippers. All Cryoport Express® Shippers are precision engineered assemblies that are reliable, cost-effective and reusable or recyclable. Our liquid nitrogen dry vapor Cryoport Express® Shippers utilize an innovative application of dry vapor liquid nitrogen technology and, generally, include a SmartPak II™ Condition Monitoring System. Cryoport Express® Shippers meet International Air Transport Association (IATA) requirements for transport, including Class 6.2 infectious substances. Cryoport Express® Shippers are also International Safe Transit

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Association (ISTA) Transit Tested certified. Cryoport Express® dry vapor shippers are validated to maintain stable temperatures of minus 150° Celsius and below for up to ten days in dynamic shipping conditions. We currently feature five types of liquid nitrogen dry vapor Cryoport Express® Shippers: the Standard Dry Shipper (holding up to 75 2.0 ml vials), the High Volume Dry Shipper (holding up to 500 2.0 ml vials), the CXVC1 Shipper (holding up to 1,500 2.0 ml vials), the Slide Rite Dry Shipper (holding up to 500 2.0 ml vials) and the CryoMax™ Shipper (holding up to 36,400 2.0 ml vials). We currently offer one type of phase change Cryoport Express® Shippers: the C3™. Cryoport Express® C3™ Shippers are reusable and maintain stable temperatures at 2-8° Celsius for up to 96 hours. All Cryoport Express® Shippers are integrated with SmartPak II™ Condition Monitoring Systems for the reasons stated above.

As a part of our Cryoport Express® Solutions services, we assist and provide clients with secondary packaging that is placed inside the main chamber of our Cryoport Express® Shippers. In addition to vials, canes, straws, goblets, plates, etc., we offer engineering services to assist clients in creating and developing customized packaging that meet their requirements.

Cryoport is the global market leader in providing reliable and comprehensive temperature-controlled logistics solutions for the life sciences industry, with a primary focus on cryogenic logistics. Our advanced technologies and dedicated personnel allow us to continue to expand our services footprint with a growing suite of services, products and competencies for the life sciences industry, which currently include: information technology, packaging, real-time monitoring, analytics, logistics distribution, consulting, laboratory relocation, fleet management, embedded logistics support, validation services (especially for shipping lanes and packaging), etc. A sample of our client facing, value-added competencies addressing client requirements are as follows:

Personalized Medicine and Cell-based Immunotherapy Solution, designed for autologous therapies in which our Cryoport Express® Solutions serve as an enabling technology for the safe and efficient transportation of leukapheresis or apheresis blood products as well as the manufactured autologous cellular-based immunotherapies by providing a comprehensive logistics solution for the verified chain of condition and chain of custody transport from, (a) the collection of the patient's blood or cells in a hospital or point-of-care setting, to (b) a central processing facility where they are manufactured into a personalized medicine, to (c) the safe, cryogenically preserved delivery of these irreplaceable cells to a point-of-care treatment facility. If required, the Cryoport Express® Shipper can then serve as a temporary freezer/repository to allow the efficient distribution of the personalized medicine to the patient when and where the medical provider needs it, without the expense and inconvenience of on-sight, cryopreservation storage equipment.

Embedded Solution, which is our total outsource solution. It is our most comprehensive solution and involves our management of the entire cryogenic logistics process for our client using Cryoport technology and Cryoport employees working at the client's location to manage the client's temperature-controlled logistics needs, in total.

Fleet Management, which is our fleet management support service designed to reduce our clients upfront and recurring costs through optimized utilization of resources and minimization of equipment loss. We offer both complete and partial temperature-controlled outsourced fleet management services, including fleet evaluation and disposition (if required), inventory control, fleet maintenance and ongoing fleet requalification and validation.

Packaging Development, using Design of Experiment and Quality by Design processes, Cryoport can design, engineer and employ customized packaging and/or accessories to ensure effective distribution of our client's critical commodities using our in-house team of packaging engineering competencies in the cryogenic, 2-8°C and other temperature-controlled ranges to meet or exceed our client's specifications. This capability usually includes integration of our SmartPak II™ Condition Monitoring System and the accommodation of our Cryoport™ Logistics Management Platform into our clients packaging configurations, providing full access to our advanced condition monitoring systems and logistics management support competencies.

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Consulting Services, giving clients an opportunity to leverage our in-house talent to: design custom logistics plans, perform lane assessment, lane validation, carrier validation; design custom packaging and validation, permitting clinical trial logistics design; commercial launch planning; systems integration; and end user training.

Laboratory Relocation, For large moves, we use redundant temperature-controlled shippers and environmentally controlled trucks. Along with our logistics partners we ensure the integrity of client materials during all logistics phases, including loading, transport, unloading and placement. Our service includes lane and carrier permitting and validation. Our large sample capacity Cryoport Express™ CryoMax™ Shipper has a holding time of up to 20 days and includes the benefit of our real time SmartPak II™ Condition Monitoring System, which supplies monitoring information to our Cryoport™ Logistic Management Platform, providing Live View information on the client's transport. Employing our 24/7/365 client support team to actively monitor shipments and mitigate risk ensures safe shipping and relocation of samples.

powered by CryoportSM, available to providers of shipping and delivery services who seek to offer a branded cryogenic logistics solution as part of their service offerings. **powered by CryoportSM** appears prominently on the offering software interface and packaging. This option for the client to private label its service is available upon committing to certain requirements for private labeling, such as minimum annual shipping volumes.

In addition to these offerings, Cryoport is continuously evaluating expanding and improving its solutions in response to market needs and client demand.

Our Corporate Information

We are a Nevada corporation originally incorporated under the name G.T.5-Limited (GT5) on May 25, 1990. In connection with a Share Exchange Agreement, on March 15, 2005 we changed our name to Cryoport, Inc. and acquired all of the issued and outstanding shares of common stock of Cryoport Systems, Inc., a California corporation, in exchange for 200,901 shares of our common stock (which represented approximately 81% of the total issued and outstanding shares of common stock following the close of the transaction). Cryoport Systems, Inc., which was originally formed in 1999 as a California limited liability company, and subsequently reorganized into a California corporation on December 11, 2000, remains the operating company under Cryoport, Inc. Our principal executive offices are located at 17305 Daimler Street, Irvine, CA 92614. The telephone number of our principal executive offices is (949) 470-2300, and our main corporate website is www.cryoport.com.

The Company became public by a reverse merger with a shell company in May 2005. Over time the Company has transitioned from being a development company to a fully operational public company, providing cold chain logistics solutions to the life sciences industry globally.

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THE OFFERING

Common stock offered by us

Shares of our common stock having an aggregate offering price of up to \$35,000,000

Common stock to be outstanding immediately after the offering⁽¹⁾

Up to approximately 31,292,178 shares, assuming sales at a price of \$13.48 per share, which was the closing price of our common stock on the Nasdaq Capital Market on August 23, 2018. The actual number of shares issued will vary depending on the sales price under this offering.

Plan of distribution

At the market offering that may be made from time to time through our sales agent, Jefferies. See Plan of Distribution on page S-9.

Use of proceeds

We intend to use the proceeds from this offering for the global expansion of our logistics centers and for general corporate purposes, including working capital, capital expenditures, sales and marketing activities, general and administrative matters, as well as potential strategic acquisitions. See Use of Proceeds on page S-6.

Risk factors

There are risks associated with participating in the offering. For a discussion of some of the risks you should consider before deciding whether to participate in the offering, you are urged to carefully review and consider the information in the section entitled Risk Factors in this prospectus supplement and in the accompanying prospectus, including the risk factors incorporated by reference herein and therein from our filings with the SEC.

Nasdaq Capital Market symbol

Our common stock is traded on the Nasdaq Capital Market under the symbol **CYRX**.

⁽¹⁾ The number of shares of common stock shown above to be outstanding after this offering is based on 28,695,739 shares outstanding as of August 17, 2018, excluding:

2,238,315 shares of common stock reserved for issuance upon the exercise of outstanding warrants with a weighted average exercise price of \$4.08 per share;

5,989,559 shares of common stock reserved for issuance upon the exercise of outstanding stock options with a weighted average exercise price of \$4.99 per share; and

4,109,767 shares of common stock available for future grant under the Cryoport, Inc. 2018 Omnibus Equity Incentive Plan.

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RISK FACTORS

An investment in our securities involves a high degree of risk. Before making an investment decision, you should consider carefully the risks discussed below, together with the risks under the heading "Risk Factors" in our Annual Report on Form 10-K for the fiscal year ended December 31, 2017, which is incorporated by reference into this prospectus supplement, as well as the other information included or incorporated by reference in this prospectus supplement and in the accompanying prospectus. Our business, prospects, financial condition, or operating results could be harmed by any of these risks, as well as other risks not currently known to us or that we currently consider immaterial. The trading price of our securities could decline due to any of these risks, and, as a result, you may lose all or part of your investment. The risks discussed below also include forward-looking statements and our actual results may differ substantially from those discussed in these forward-looking statements. See the section entitled Forward-Looking Information.

Additional Risks Relating to this Offering and Our Common Stock

Management will have broad discretion in determining how to use the proceeds of this offering.

Our management will have broad discretion over the use of proceeds from this offering, and we could use the proceeds from this offering in ways our stockholders may not agree with or that do not yield a favorable return, if at all. We intend to use the proceeds from this offering for the global expansion of our logistics centers and for general corporate purposes, including working capital, capital expenditures, sales and marketing activities, general and administrative matters, as well as potential strategic acquisitions. However, our use of these proceeds may differ substantially from our current plans. If we do not invest or apply the proceeds of this offering in ways that improve our operating results, we may fail to achieve expected financial results, which could have an adverse effect on the market price of our common stock.

If you purchase shares of our common stock in this offering, you will incur immediate and substantial dilution.

Since the public offering price for our common stock in this offering is substantially higher than the net tangible book value per share of our common stock, you will suffer immediate and substantial dilution in the net tangible book value of the common stock you purchase in this offering. See the section entitled "Dilution" for a more detailed discussion of the dilution you will incur if you purchase shares of our common stock in this offering.

Future sales of shares of our common stock may depress the price of our shares and be dilutive to our existing stockholders.

We cannot predict whether future issuances of shares of our common stock or the availability of shares for resale in the open market will decrease the market price per share of our common stock. As of August 17, 2018, there were 28,695,739 shares of our common stock outstanding. Substantially all of these shares of common stock are eligible for trading in the public market. The market price of our common stock may decline if our stockholders sell a large number of shares of our common stock in the public market, or the market perceives that such sales may occur.

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As of August 17, 2018, we could also issue up to an additional 12,337,641 shares of our common stock, including 2,238,315 shares to be issued upon the exercise of outstanding warrants and 10,099,326 shares upon exercise of outstanding options or reserved for future issuance under our stock incentive plans. The exercise of any options or warrants, the issuance of our common stock in connection with acquisitions and other issuances of our common stock could have an adverse effect on the market price of the shares of our common stock.

To the extent that we raise additional funds through the sale of equity or convertible debt securities, the issuance of such securities will result in dilution to our stockholders. Investors purchasing shares or other securities in the future could have rights superior to existing stockholders. The price per share at which we sell additional shares of our common stock, or securities convertible or exchangeable into common stock, in future transactions may be higher or lower than the price per share paid by investors in this offering. In addition, if the holders of our outstanding options or warrants exercise such securities, you may incur further dilution.

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USE OF PROCEEDS

If we receive all \$35,000,000 of gross proceeds from the sale of the shares of our common stock under this prospectus supplement, we anticipate that the net proceeds we receive from this offering will be approximately \$33.9 million, after deducting the estimated commissions and estimated expenses payable by us. The amount of proceeds from this offering will depend on the number of shares of our common stock sold and the market price at which they are sold. There can be no assurance that we will be able to sell any or all of the shares under the sales agreement with Jefferies as a source of financing. We intend to use the proceeds from this offering for the global expansion of our logistics centers and for general corporate purposes, including working capital, capital expenditures, sales and marketing activities, general and administrative matters, as well as potential strategic acquisitions. Although we currently have no specific agreements, commitments or understandings with respect to any acquisition or investment, we evaluate acquisition and investment opportunities and may engage in related discussions with other companies from time to time.

We have not yet determined the amount of net proceeds to be used specifically for any of the foregoing purposes. Accordingly, our management will have broad discretion in determining how the proceeds from this offering will be used, and our discretion is not limited by the aforementioned possible uses. See **Risk Factors** **Additional Risks Relating to this Offering and Our Common Stock** Management will have broad discretion in determining how to use the proceeds of this offering.

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The Company's common stock is currently listed on the Nasdaq Capital Market and is traded under the symbol CYRX. The quarterly high and low reported closing sale prices for our common stock as quoted on the Nasdaq Capital Market for the periods indicated are as follows:

| | High | Low |
|--|----------|----------|
| Year Ending December 31, 2018: | | |
| Third Quarter Ended September 30, 2018 (through August 23, 2018) | \$ 16.57 | \$ 12.42 |
| Second Quarter Ended June 30, 2018 | \$ 15.78 | \$ 6.71 |
| First Quarter Ended March 31, 2018 | \$ 10.22 | \$ 7.77 |
| Year Ended December 31, 2017: | | |
| Fourth Quarter Ended December 31, 2017 | \$ 9.61 | \$ 6.07 |
| Third Quarter Ended September 30, 2017 | \$ 10.21 | \$ 4.78 |
| Second Quarter Ended June 30, 2017 | \$ 4.92 | \$ 2.11 |
| First Quarter Ended March 31, 2017 | \$ 3.91 | \$ 2.01 |
| Transition Period ended December 31, 2016: | | |
| Third Quarter Ended December 31, 2016 | \$ 3.49 | \$ 1.83 |
| Second Quarter Ended September 30, 2016 | \$ 2.27 | \$ 1.97 |
| First Quarter Ended June 30, 2016 | \$ 2.92 | \$ 1.51 |

As of August 17, 2018 there were 28,695,739 shares of common stock outstanding and 305 stockholders of record. Because many shares of our common stock are held by brokers and other institutions on behalf of stockholders, we are unable to estimate the total number of stockholders represented by these stockholders of record.

DIVIDENDS

No dividends on common stock have been declared or paid by the Company. The Company intends to employ all available funds for the development of its business and, accordingly, does not intend to pay any cash dividends in the foreseeable future.

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If you invest in our shares of common stock in this offering, your ownership interest will be immediately diluted to the extent of the difference between the public offering price per share and the pro forma net tangible book value per share of our common stock after this offering.

Our net tangible book value as of June 30, 2018 was approximately \$24.5 million, or \$0.86 per share of common stock. Net tangible book value per share is determined by dividing our total tangible assets, less total liabilities, by the number of our shares of common stock outstanding as of June 30, 2018. Dilution in net tangible book value per share represents the difference between the amount per share paid by purchasers of common stock in this offering and the net tangible book value per share of our common stock immediately after this offering.

After giving effect to the sale of 2,596,439 shares in this offering at an assumed public offering price of \$13.48 per share, which was the last reported sale price of our common stock on the Nasdaq Capital Market on August 23, 2018, and after deducting estimated commissions and estimated offering expenses payable by us, our pro forma net tangible book value as of June 30, 2018 would have been approximately \$58.4 million, or \$1.88 per share. This represents an immediate increase in net tangible book value of approximately \$1.02 per share to existing stockholders and immediate dilution in net tangible book value of \$11.60 per share to new investors participating in this offering. The following table illustrates this dilution on a per share basis:

| | | |
|---|---------|----------|
| Assumed public offering price per share | | \$ 13.48 |
| Net tangible book value per share as of June 30, 2018 | \$ 0.86 | |
| Increase in net tangible book value per share attributable to this offering | \$ 1.02 | |
| Pro forma net tangible book value per share after this offering | | \$ 1.88 |
| Dilution per share to new investors participating in this offering | | \$ 11.60 |

To the extent that outstanding options or warrants are exercised, you will experience further dilution. In addition, we may choose to offer securities in other offerings due to market conditions or strategic considerations. To the extent that we raise additional capital through the sale of common stock or securities exercisable or convertible into common stock, the issuance of such securities may result in further dilution of our stockholders.

The above table excludes an aggregate of up to 4,168,567 additional shares of common stock reserved and available for future issuance (i) upon the exercise of all outstanding stock options and warrants to purchase common stock and (ii) under the Cryoport, Inc. 2018 Omnibus Equity Incentive Plan, as of June 30, 2018.

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PLAN OF DISTRIBUTION

We have entered into a sales agreement with Jefferies under which we may issue and sell shares of our common stock having an aggregate gross sales price of up to \$35,000,000 from time to time through Jefferies acting as agent. This summary of the material provisions of the sales agreement does not purport to be a complete statement of its terms and conditions. A copy of the sales agreement has been filed as an exhibit to a Current Report on Form 8-K and incorporated by reference into this prospectus supplement.

Upon delivery of a placement notice and subject to the terms and conditions of the sales agreement, Jefferies may sell our common stock by any method permitted by law deemed to be an at the market offering as defined in Rule 415(a)(4) promulgated under the Securities Act. We may instruct Jefferies not to sell common stock if the sales cannot be effected at or above the price designated by us from time to time. We or Jefferies may suspend the offering of common stock upon notice and subject to other conditions.

We will pay Jefferies commissions, in cash, for its services in acting as agent in the sale of our common stock. Jefferies will be entitled to compensation at a fixed commission rate of 3.0% of the gross sales price per share sold. Because there is no minimum offering amount required as a condition to close this offering, the actual total public offering amount, commissions and proceeds to us, if any, are not determinable at this time. We have also agreed to reimburse Jefferies for certain specified expenses, including the fees and disbursements of its legal counsel in an amount not to exceed \$50,000. We estimate that the total expenses for the offering, excluding compensation and reimbursements payable to Jefferies under the terms of the sales agreement, will be approximately \$40,000.

Settlement for sales of common stock will generally occur on the second trading day following the date on which any sales are made (or such earlier day as is industry practice for regular-way trading), or on some other date that is agreed upon by us and Jefferies in connection with a particular transaction, in return for payment of the net proceeds to us. Sales of our common stock as contemplated in this prospectus supplement will be settled through the facilities of The Depository Trust Company or by such other means as we and Jefferies may agree upon. There is no arrangement for funds to be received in an escrow, trust or similar arrangement.

Jefferies will use its commercially reasonable efforts, consistent with its normal trading and sales practices and applicable state and federal laws, rules and regulations, and the rules of the Nasdaq Capital Market, to solicit offers to purchase shares of common stock under the terms and subject to the conditions set forth in the sales agreement. In connection with the sale of the common stock on our behalf, Jefferies will be deemed to be an underwriter within the meaning of the Securities Act and the compensation of Jefferies will be deemed to be underwriting commissions or discounts. We have agreed to provide indemnification and contribution to Jefferies against certain civil liabilities, including liabilities under the Securities Act.

The offering of our common stock pursuant to the sales agreement will terminate as permitted therein.

We and Jefferies may each terminate the sales agreement at any time upon ten days prior notice.

Jefferies and its affiliates may in the future provide various investment banking, commercial banking and other financial services for us and our affiliates, for which services they may in the future receive customary fees. To the extent required by Regulation M under the Securities Exchange Act of 1934, as amended, or the Exchange Act, Jefferies will not engage in any market making activities involving our common stock while the offering is ongoing under this prospectus supplement.

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This prospectus supplement and the accompanying prospectus in electronic format may be made available on a website maintained by Jefferies, and Jefferies may distribute this prospectus supplement and the accompanying prospectus electronically.

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LEGAL MATTERS

Certain legal matters will be passed upon for us by Snell & Wilmer L.L.P., Costa Mesa, California. Jefferies LLC is being represented in connection with this offering by Latham & Watkins LLP, San Diego, California.

EXPERTS

KMJ Corbin & Company, LLP, an independent registered public accounting firm, has audited our consolidated financial statements as of December 31, 2017 and 2016, and for the year ended December 31, 2017 and the nine month period ended December 31, 2016, included in our Annual Report on Form 10-K for the year ended December 31, 2017, and the effectiveness of our internal control over financial reporting as of December 31, 2017, as set forth in their reports, which are incorporated by reference in this prospectus supplement. Our consolidated financial statements are incorporated by reference in reliance on KMJ Corbin & Company LLP's report, given on their authority as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We are subject to the reporting requirements of the Exchange Act and file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy these reports, proxy statements and other information at the SEC's public reference facilities at 100 F Street, N.E., Room 1580, Washington, D.C. 20549. You can request copies of these documents by writing to the SEC and paying a fee for the copying cost. Please call the SEC at 1-800-SEC-0330 for more information about the operation of the public reference facilities. SEC filings are also available at the SEC's website at <http://www.sec.gov>.

This prospectus supplement and the accompanying prospectus are only part of a registration statement on Form S-3 that we have filed with the SEC under the Securities Act and therefore omit certain information contained in the registration statement. We have also filed exhibits and schedules with the registration statement that are excluded from this prospectus supplement and the accompanying prospectus, and you should refer to the applicable exhibit or schedule for a complete description of any statement referring to any contract or other document. You may inspect a copy of the registration statement, including the exhibits and schedules, without charge, at the public reference room or obtain a copy from the SEC upon payment of the fees prescribed by the SEC.

We also maintain a website at <http://www.cryoport.com>, through which you can access our SEC filings. The information set forth on our website is not part of this prospectus supplement or the accompanying prospectus.

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INFORMATION INCORPORATED BY REFERENCE

The SEC allows us to incorporate by reference information into this document. This means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information incorporated by reference is considered to be a part of this document, except for any information superseded by information that is included directly in this document or incorporated by reference subsequent to the date of this document.

This prospectus supplement incorporates by reference the documents listed below and any future filings that we make with the SEC under Section 13(a), 13(c), 14 or 15(d) of the Exchange Act (other than current reports on Form 8-K furnished under Item 2.02 or Item 7.01 and exhibits filed on such form that are related to such items) after the date of this prospectus supplement and prior to the termination of this offering.

Our Annual Report on Form 10-K for the fiscal year ended December 31, 2017, as filed with the SEC on March 8, 2018;

Our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2018 and June 30, 2018, filed with the SEC on May 3, 2018 and August 9, 2018, respectively;

Our Current Reports on Form 8-K filed with the SEC on February 8, 2018, April 3, 2018 and May 18, 2018; and

The description of our common stock contained in our Registration Statement on Form 8-A, filed with the SEC on July 22, 2015, and any other amendment or report filed for the purposes of updating such descriptions.

Any information in any of the foregoing documents will automatically be deemed to be modified or superseded to the extent that information in this prospectus supplement and the accompanying prospectus or in a later filed document that is incorporated or deemed to be incorporated herein by reference modifies or replaces such information.

We will provide, upon written or oral request, without charge to each person, including any beneficial owner, to whom a copy of this prospectus supplement and the accompanying prospectus is delivered, a copy of any or all of the information incorporated herein by reference (exclusive of exhibits to such documents unless such exhibits are specifically incorporated by reference herein). You may request in writing or orally a copy of these filings, at no cost, by writing or telephoning us at:

Cryoport, Inc.
17305 Daimler St.
Irvine, California, 92614
Attn: Chief Financial Officer
(949) 470-2300

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PROSPECTUS

CRYOPORT, INC.

**\$50,000,000 of
Shares of Common Stock/Preferred
Stock/Warrants/Units/Subscription Rights**

Cryoport, Inc., a Nevada corporation (**we**, **us**, **Cryoport** or the **Company**), may offer and sell from time to time, one or more series or issuances and on terms that we will determine at the time of the offering, any combination of the securities described in this prospectus, up to an aggregate amount of \$50,000,000.

At no time will the Company issue shares of common stock (whether upon conversion or exercise of warrants, preferred stock, units or subscription rights) in a transaction other than a public offering if such transaction would result in the issuance of more than 19.999% of the amount of common stock of the Company issued and outstanding for less than the greater of book or market value of the common stock unless (i) the Company's stockholders have approved the issuance of shares of common stock in excess of 20%, or (ii) NASDAQ has provided a waiver of Listing Rule 5635(d). Pursuant to General Instruction I.B.6 of Form S-3, in no event will we sell securities in a public primary offering with a value exceeding more than one-third of our public float in any 12-month period so long as our public float remains below \$75,000,000. We have not sold any securities pursuant to General Instruction I.B.6 of Form S-3 during the 12 calendar months prior to and including the date of this prospectus.

This prospectus may not be used to sell securities unless accompanied by a prospectus supplement, which will describe the method and the terms of the offering. We will provide you with specific amount, price and terms of the applicable offered securities in one or more supplements to this prospectus. You should carefully read this prospectus and the applicable prospectus supplement, as well as the documents incorporated or deemed to be incorporated by reference in this prospectus, before you purchase any of the securities offered hereby.

These securities may be offered and sold in the same offering or in separate offerings; to or through underwriters, dealers, and agents; or directly to purchasers. The names of any underwriters, dealers, or agents involved in the sale of our securities, their compensation and any over-allotment options held by them will be described in the applicable prospectus supplement. See Plan of Distribution.

Our common stock and certain warrants are listed on The NASDAQ Capital Market under the symbols **CYRX** and **CYRXW**, respectively. We will provide information in any applicable prospectus supplement regarding any listing of securities other than shares of our common stock and such warrants on any securities exchange.

Investing in our securities involves significant risks. Prior to making an investment decision, you should carefully review the information under the heading Risk Factors beginning on page 7 of this prospectus.

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

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement on Form S-3 that we filed with the United States Securities and Exchange Commission (the SEC), using a shelf registration process. Under this shelf process, we may, from time to time, offer or sell any combination of the securities described in this prospectus in one or more offerings up to a total amount of \$50,000,000.

This prospectus provides you with a general description of the securities we may offer. Each time we sell securities, we will provide a prospectus supplement that will contain specific information about the terms of that offering. The prospectus supplement may also add to, update or change information contained in the prospectus and, accordingly, to the extent inconsistent, information in this prospectus is superseded by the information in the prospectus supplement.

The prospectus supplement to be attached to the front of this prospectus may describe, as applicable: the terms of the securities offered; the initial public offering price; the price paid for the securities; net proceeds; and the other specific terms related to the offering of the securities.

You should rely only on the information contained or incorporated by reference in this prospectus and any prospectus supplement or issuer free writing prospectus relating to a particular offering. No one has been authorized to provide you with information that is different from that contained or incorporated by reference in this prospectus, any accompanying prospectus supplement and any related issuer free writing prospectus in connection with the offering described herein and therein, and, if given or made, such information or representations must not be relied upon as having been authorized by us. Neither this prospectus nor any prospectus supplement nor any related issuer free writing prospectus shall constitute an offer to sell or a solicitation of an offer to buy offered securities in any jurisdiction in which it is unlawful for such person to make such an offering or solicitation. This prospectus does not contain all of the information included in the registration statement. For a more complete understanding of the offering of the securities, you should refer to the registration statement, including its exhibits.

You should read the entire prospectus and any prospectus supplement and any related issuer free writing prospectus, as well as the documents incorporated by reference into this prospectus or any prospectus supplement or any related issuer free writing prospectus, before making an investment decision. Neither the delivery of this prospectus or any prospectus supplement or any issuer free writing prospectus nor any sale made hereunder shall under any circumstances imply that the information contained or incorporated by reference herein or in any prospectus supplement or issuer free writing prospectus is correct as of any date subsequent to the date hereof or of such prospectus supplement or issuer free writing prospectus, as applicable. You should assume that the information appearing in this prospectus, any prospectus supplement or any document incorporated by reference is accurate only as of the date of the applicable documents, regardless of the time of delivery of this prospectus or any sale of securities. Our business, financial condition, results of operations and prospects may have changed since that date.

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PROSPECTUS SUMMARY

This summary highlights information contained elsewhere in this prospectus and does not contain all of the information you should consider in making your investment decision. You should read this entire prospectus carefully (including the documents incorporated herein by reference), especially the section of this prospectus entitled Risk Factors beginning on page 7, and our consolidated financial statements and notes to those consolidated financial statements, before making an investment decision. Cryoport, Inc. is referred to throughout this prospectus as Cryoport, we or us.

General Overview

We provide cryogenic logistics solutions to the life sciences industry through a combination of proprietary packaging, information technology and specialized cold chain logistics knowhow. We view our solutions as disruptive to the older technologies of dry ice and liquid nitrogen, in that our solutions are comprehensive and combine our competencies in configurations that are customized to our clients' requirements. We provide comprehensive, reliable, economic alternatives to all existing logistics solutions and services utilized for frozen shipping in the life sciences industry (e.g., personalized medicine, cell therapies, stem cells, cell lines, vaccines, diagnostic materials, semen, eggs, embryos, cord blood, bio-pharmaceuticals, infectious substances, and other commodities that require continuous exposure to cryogenic or frozen temperatures). As part of our services we provide the ability to monitor, record and archive crucial information for each shipment that can be used for scientific and regulatory purposes.

Our Cryoport Express® Solutions include a sophisticated cloud-based logistics operating platform, which is branded as the Cryoport™. The Cryoport™ supports the management of the entire shipment and logistics process through a single interface, including initial order input, document preparation, customs clearance, courier management, shipment tracking, issue resolution, and delivery. In addition, it provides unique and incisive information dashboards and validation documentation for every shipment. The Cryoport™ records and retains a fully documented chain-of-custody and, at the client's option, chain-of-condition for every shipment, helping ensure that quality, safety, efficacy, and stability of shipped commodities are maintained throughout the process. This recorded and archived information allows our clients to meet exacting requirements necessary for scientific work and for proof of regulatory compliance during the logistics phase.

The branded packaging for our Cryoport Express® Solutions includes our liquid nitrogen dry vapor shippers, the Cryoport Express® Shippers. The Cryoport Express® Shippers are cost-effective and reusable cryogenic transport containers (our standard shipper is a patented vacuum flask) utilizing an innovative application of dry vapor liquid nitrogen (LN₂) technology. Cryoport Express® Shippers are International Air Transport Association (IATA) certified and validated to maintain stable temperatures of minus 150° C and below for a 10-day dynamic shipment period. The Company currently features three Cryoport Express® Shippers: the Standard Dry Shipper (holding up to 75 2.0 ml vials), the High Volume Dry Shipper (holding up to 500 2.0 ml vials) and the recently introduced Cryoport Express® CXVC1 Shipper (holding up to 1,500 2.0 ml vials). In addition, we assist clients with internal secondary packaging (e.g., vials, canes, straws and plates).

Our most used solution is the turnkey solution, which can be accessed directly through our cloud-based Cryoport™ or by contacting Cryoport Client Care for order entry. Once an order is placed and cleared, we ship a fully charged Cryoport Express® Shipper to the client who conveniently loads its frozen commodity into the inner chamber of the Cryoport Express® Shipper. The customer then closes the shipper package and reseals the shipping box displaying the next recipient's address for pre-arranged carrier pick up. Cryoport arranges for the pick-up of the parcel by a shipping

service provider, which is designated by the client or chosen by Cryoport, for delivery to the client's intended recipient. The recipient simply opens the shipper package and removes the frozen commodity that has been shipped. The recipient then reseals the package, displaying the nearest Cryoport Staging Center address, making it ready for pre-arranged carrier pick-up. When the Cryoport Staging Center receives the Cryoport Express® Shipper, it is cleaned, put through quality assurance testing, and returned to inventory for reuse.

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In late 2012, we shifted our focus to become a comprehensive cryogenic logistics solutions provider. Recognizing that clients in the life sciences industry have varying requirements, we unbundled our technologies, established customer facing solutions and took a consultative approach to the market. Today, in addition to our standard Turn-key Solution, described above, we also provide the following customer facing, value-added solutions to address our various clients needs:

Customer Staged Solution, designed for clients making 50 or more shipments per month. Under this solution, we supply an inventory of our Cryoport Express® Shippers to our customer, in an uncharged state, enabling our customer (after training/certification) to charge them with liquid nitrogen and use our Cryoport™ to enter orders with shipping and delivery service providers for the transportation of the package.

Customer Managed Solution, a limited customer implemented solution, whereby we supply our Cryoport Express® Shippers to clients in a fully charged state, but leaving it to the client to manage the shipping, including the selection of the shipping and delivery service provider and the return of the shipper to us.

powered by CryoportSM, available to providers of shipping and delivery services who seek to offer a branded cryogenic logistics solution as part of their service offerings, with powered by CryoportSM appearing prominently on the offering software interface and packaging. This solution can also be private labeled upon meeting certain requirements, such as minimum required shipping volumes.

Integrated Solution, which is our total outsource solution. It is our most comprehensive solution and involves our management of the entire cryogenic logistics process for our client, including Cryoport employees at the client's site to manage the client's cryogenic logistics function in total.

Regenerative Medicine Point-of-Care Repository Solution, designed for allogeneic therapies. In this solution we supply our Cryoport Express® Shipper to ship and store cryogenically preserved life science products for up to six days (or longer periods with supplementary shippers) at a point-of-care site, with the Cryoport Express® Shipper serving as a temporary freezer/repository enabling the efficient and effective distribution of temperature sensitive allogeneic cell-based therapies without the expense, inconvenience, and potential costly failure of an on-site, cryopreservation device.

Personalized Medicine and Cell-based Immunotherapy Solution, designed for autologous therapies. In this solution our Cryoport Express® Shipper serves as an enabling technology for the safe transportation for the manufactured autologous cellular-based immunotherapy market by providing a comprehensive logistics solution for the verified chain of custody and condition transport from, (a) the collection of the patient's cells in a hospital setting, to (b) a central processing facility where they are manufactured into a personalized medicine, to (c) the safe, cryogenically preserved return of these irreplaceable cells to a point-of-care treatment facility. If required, the Cryoport Express® Shipper can then serve as a temporary freezer/repository to allow the efficient distribution of this personalized medicine to the patient when and where the medical provider needs it most without the expense, inconvenience, and potential costly failure of an on-site, cryopreservation device.

Cryoport is continuously expanding its solutions offerings in response to its customers' needs. In June 2016, Cryoport announced a new Laboratory Relocation Service, for transport of complete laboratories. The Laboratory Relocation Service manages the safe, secure and proper transportation of materials that are stored in labs as well as lab equipment and instruments. Relocation projects can range in size from the relocation of a fully equipped lab to the move of a single freezer.

Also in June 2016, Cryoport further broadened its capabilities and solutions offerings beyond cryogenic logistics and transportation services to include temperature-controlled storage solutions that include cGMP compliant biorepositories at controlled temperatures and climatized systems. Cryoport Biostorage services

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feature extensive management and monitoring, including controlled access to commodities, periodic temperature and activity reports, as well as 21 CFR, Part 11 compliant monitoring with 24/7/365 alarm response.

Our Corporate Information

We are a Nevada corporation originally incorporated under the name G.T.5-Limited (**GT5**) on May 25, 1990. In connection with a Share Exchange Agreement, on March 15, 2005 we changed our name to Cryoport, Inc. and acquired all of the issued and outstanding shares of common stock of Cryoport Systems, Inc., a California corporation, in exchange for 200,901 shares of our common stock (which represented approximately 81% of the total issued and outstanding shares of common stock following the close of the transaction). Cryoport Systems, Inc., which was originally formed in 1999 as a California limited liability company, and subsequently reorganized into a California corporation on December 11, 2000, remains the operating company under Cryoport, Inc. Our principal executive offices are located at 17305 Daimler Street, Irvine, CA 92614. The telephone number of our principal executive offices is (949) 470-2300, and our main corporate website is *www.cryoport.com*.

The Company became public by a reverse merger with a shell company in May 2005. Over time the Company has transitioned from being a development company to a fully operational public company, providing cold chain logistics solutions to the life sciences industry globally.

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The Offering

We may offer up to \$50,000,000 of common stock, preferred stock, warrants, units and/or subscription rights in one or more offerings and in any combination. This prospectus provides you with a general description of the securities we may offer. A prospectus supplement, which we will provide each time we offer securities, will describe the specific amounts, prices and terms of the securities we determine to offer.

We may sell the securities to or through underwriters, dealers or agents or directly to purchasers or as otherwise set forth below under Plan of Distribution. We and any agents acting on our behalf, reserve the sole right to accept and to reject in whole or in part any proposed purchase of securities. Each prospectus supplement will set forth the names of any underwriters, dealers, agents or other entities involved in the sale of securities described in that prospectus supplement and any applicable fee, commission or discount arrangements with them.

Common Stock

We may offer shares of our common stock, par value \$0.001 per share, either alone or underlying other registered securities convertible or exercisable into our common stock. Subject to the preferential rights of any outstanding preferred stock, each holder of common stock is entitled to receive ratable dividends, if any, as may be declared by our board of directors out of funds legally available for the payment of dividends. Holders of common stock are entitled to one vote for each share held of record. The holders of our common stock have no preemptive, subscription, conversion or redemption rights. Upon our liquidation, dissolution or winding-up, the holders of our common stock are entitled to receive our assets pro rata.

Preferred Stock

Our board of directors has the authority, without further action by the stockholders, to issue from time to time the preferred stock in one or more series, to fix the number of shares constituting such series and the designation of such series, the voting powers, if any, of the shares of such series, and the preferences and relative, participating, optional or other special rights, if any, and any qualifications, limitations or restrictions thereof, of the shares of such series.

Each series of preferred stock will be more fully described in the particular prospectus supplement that will accompany this prospectus. Each series of preferred stock, if issued, will be more fully described in the particular prospectus supplement that will accompany this prospectus, including redemption provisions, rights in the event of our liquidation, dissolution or winding up, voting rights and rights to convert into common stock. We have no present plans to issue any shares of preferred stock nor are any shares of our preferred stock presently outstanding.

Warrants

We may issue warrants for the purchase of common stock, preferred stock or units. We may issue warrants independently or together with other securities.

Units

We may issue units comprised of one or more of the other classes of securities issued by us as described in this prospectus in any combination. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit.

Subscription Rights

We may issue subscription rights to purchase common stock, preferred stock or other securities described in this prospectus or any combination thereof. These subscription rights may be issued independently or together with any other security offered by us and may or may not be transferable by the securityholder receiving the subscription rights in such offering. In connection with any offering of subscription rights, we may enter into a standby arrangement with one or more underwriters or other investors pursuant to which the underwriters or other investors may be required to purchase any securities remaining unsubscribed for after such offering.

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INFORMATION CONCERNING FORWARD-LOOKING STATEMENTS

This prospectus contains forward-looking statements. All statements other than statements of historical fact contained in this prospectus, including statements regarding our future results of operations and financial position, business strategy and plans and objectives of management for future operations, are forward-looking statements. These statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements.

In some cases, you can identify forward-looking statements by terms such as may, will, should, expects, plans, anticipates, could, intends, target, projects, contemplates, believes, estimates, predicts, potential, negative of these terms or other similar words. These statements are only predictions. We have based these forward-looking statements largely on our current expectations and projections about future events and financial trends that we believe may affect our business, financial condition and results of operations. We discuss many of the risks in greater detail under the heading Risk Factors. Also, these forward-looking statements represent our estimates and assumptions only as of the date of this prospectus. Forward-looking statements in this prospectus include, but are not necessarily limited to, those relating to:

- our intention to introduce new products or services;
- our expectations about securing strategic relationships with global couriers or large clinical research organization;
- our future capital needs;
- results of our research and development efforts; and
- approval of our patent applications.

Forward-looking statements are subject to risks and uncertainties, certain of which are beyond our control. Actual results could differ materially from those anticipated as a result of the factors described in Risk Factors in this prospectus and detailed in our other SEC filings, including among others:

- the effect of regulation by United States and foreign governmental agencies;
- research and development efforts, including delays in developing, or the failure to develop, our products;
- the development of competing or more effective products by other parties;
- uncertainty of market acceptance of our products;
- errors in business planning attributable to insufficient market size or segmentation data;
- problems that we may face in manufacturing, marketing and distributing our products;
- problems that we may encounter in further development of Cryoport Express® Solutions, which includes the cloud-based logistics management software branded as CryoportTM;
- our inability to raise additional capital when needed;
- delays in the issuance of, or the failure to obtain, patents for certain of our products and technologies;
- problems with important suppliers and strategic business partners; and
- difficulty or delays in establishing marketing relationships with international couriers.

Because of these risks and uncertainties, the forward-looking events and circumstances discussed in this prospectus might not transpire. Except for our ongoing obligations to disclose material information as required by the federal securities laws, we undertake no obligation to release publicly any revisions to any forward-looking statements to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events. All of the above factors are difficult to predict, contain uncertainties that may

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materially affect our actual results and may be beyond our control. New factors emerge from time to time, and it is not possible for our management to predict all of such factors or to assess the effect of each factor on our business. You are advised to consult any further disclosures we make on related subjects in the reports we file with the SEC.

This prospectus also contains estimates and other industry and statistical data developed by independent parties and by us relating to market size, growth, and segmentation of markets. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. While we believe the data referred to in this prospectus to be reliable, industry and statistical data is subject to variations and cannot be verified due to limits on the availability and reliability of data inputs, the voluntary nature of the data gathering process and other limitations and uncertainties inherent in any statistical survey. We have not independently verified these estimates generated by independent parties and contained in this prospectus. In addition, projections, assumptions, and estimates of our future performance and the future performance of the industries in which we operate are necessarily subject to a high degree of uncertainty and risk due to a variety of factors, including those described in **Risk Factors** and elsewhere in this prospectus. These and other factors could cause results to differ materially from those expressed in the estimates made by the independent parties and by us.

RISK FACTORS

An investment in our securities involves a high degree of risk. Before making an investment decision, you should consider carefully the risks discussed below, together with the risks under the heading **Risk Factors** in our Annual Report on Form 10-K for the fiscal year ended March 31, 2016, our Quarterly Reports on Form 10-Q for the quarters ended June 30, 2016 and September 30, 2016, and any subsequent Annual Report on Form 10-K or Quarterly Report on Form 10-Q, which are incorporated by reference into this prospectus, as well as the other information included or incorporated by reference in this prospectus. Our business, prospects, financial condition, or operating results could be harmed by any of these risks, as well as other risks not currently known to us or that we currently consider immaterial. The trading price of our securities could decline due to any of these risks, and, as a result, you may lose all or part of your investment. The prospectus supplement applicable to each offering of securities will contain additional information about risks applicable to an investment in us and the applicable securities.

USE OF PROCEEDS

Unless otherwise indicated in the prospectus supplement, we will use the net proceeds from the sale of securities offered by this prospectus primarily for general corporate purposes, including working capital, capital expenditures, sales and marketing activities, general and administrative matters, and the repayment of indebtedness. We may also use a portion of the proceeds to acquire or invest in complementary products or businesses.

We have not yet determined the amount of net proceeds to be used specifically for any of the foregoing purposes. Accordingly, our management will have broad discretion over the uses of such proceeds. The specific allocations of the proceeds we receive from the sale of our securities will be described in the applicable prospectus supplement.

DESCRIPTION OF CAPITAL STOCK

Our authorized capital consists of 50,000,000 shares of common stock, \$0.001 par value per share, of which 17,604,283 shares of common stock were issued and outstanding as of January 20, 2017, and 2,500,000 shares of blank check preferred stock, \$0.001 par value per share, none of which were issued and outstanding as of such date.

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The following description is a summary and is qualified in its entirety by our Amended and Restated Articles of Incorporation, as amended to date, and our Amended and Restated Bylaws, as currently in effect, copies of which are referenced as exhibits herein, and the provisions of the Nevada Revised Statutes.

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Common Stock

Subject to the preferential rights of any outstanding preferred stock, each holder of common stock is entitled to receive ratable dividends, if any, as may be declared by our board of directors out of funds legally available for the payment of dividends. As of the date of this prospectus, no dividends on common stock have been declared or paid by the Company. The Company intends to employ all available funds for the development of its business and, accordingly, does not intend to pay any cash dividends in the foreseeable future.

Holders of common stock are entitled to one vote for each share held of record. There are no cumulative voting rights in the election of directors. Thus the holders of more than 50% of the outstanding shares of common stock can elect all of our directors if they choose to do so.

The holders of our common stock have no preemptive, subscription, conversion or redemption rights. Upon our liquidation, dissolution or winding-up, the holders of our common stock are entitled to receive our assets pro rata.

Preferred Stock

The following description of preferred stock and the description of the terms of any particular series of preferred stock that we choose to issue hereunder and that will be set forth in the related prospectus supplement are not complete. These descriptions are qualified in their entirety by reference to our certificate of incorporation and any amendments thereto relating to any series of preferred stock. The rights, preferences, privileges and restrictions of the preferred stock of each series will be fixed by the certificate of designation relating to that series. The prospectus supplement also will contain a description of certain United States federal income tax consequences relating to the purchase and ownership of the series of preferred stock that is described in the prospectus supplement.

Our board of directors is empowered, without further action by stockholders, to issue from time to time one or more series of preferred stock, with such designations, rights, preferences and limitations as the board of directors may determine by resolution. The rights, preferences and limitations of separate series of preferred stock may differ with respect to such matters among such series as may be determined by our board of directors, including, without limitation, the rate of dividends, method and nature of payment of dividends, terms of redemption, amounts payable on liquidation, sinking fund provisions (if any), conversion rights (if any) and voting rights. Certain issuances of preferred stock may have the effect of delaying or preventing a change in control of our company that some stockholders may believe is not in their interest.

The prospectus supplement for a series of preferred stock will specify:

the maximum number of shares;
the designation of the shares;

the annual dividend rate, if any, whether the dividend rate is fixed or variable, the date or dates on which dividends will accrue, the dividend payment dates, and whether dividends will be cumulative;

the price and the terms and conditions for redemption, if any, including redemption at our option or at the option of the holders, including the time period for redemption, and any accumulated dividends or premiums;

the liquidation preference, if any, and any accumulated dividends upon the liquidation, dissolution or winding up of our affairs;

any sinking fund or similar provision, and, if so, the terms and provisions relating to the purpose and operation of the fund;

the terms and conditions, if any, for conversion or exchange of shares of any other class or classes of our capital stock or any series of any other class or classes, or of any other series of the same class, or any other securities or assets, including the price or the rate of conversion or exchange and the method, if any, of adjustment;

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the voting rights; and
any or all other preferences and relative, participating, optional or other special rights, privileges or qualifications, limitations or restrictions.

The issuance of preferred stock will affect, and may adversely affect, the rights of holders of common stock. It is not possible to state the actual effect of the issuance of any shares of preferred stock on the rights of holders of common stock until our board of directors determines the specific rights attached to that preferred stock. The effects of issuing preferred stock could include one or more of the following:

restricting dividends on the common stock;
diluting the voting power of the common stock;
impairing the liquidation rights of the common stock; or
delaying or preventing changes in control or management of our company.

We have no present plans to issue any shares of preferred stock nor are any shares of our preferred stock presently outstanding. Preferred stock will be fully paid and nonassessable upon issuance.

Nevada Anti-Takeover Law and Charter and Bylaws Provisions

Nevada Revised Statutes sections 78.378 to 78.3793 provide state regulation over the acquisition of a controlling interest in certain Nevada corporations unless the articles of incorporation or bylaws of the corporation provide that the provisions of these sections do not apply. This statute currently does not apply to our Company because in order to be applicable, we would need to have a specified number of Nevada residents as shareholders, and we would have to do business in Nevada directly or through an affiliate.

In addition, our amended and restated articles of incorporation and amended and restated bylaws contain provisions that may make the acquisition of our company more difficult, including, but not limited to, the following:

requiring at least 75% of outstanding voting stock in order to call a special meeting of stockholders;
not allowing stockholders to take action by written consent in lieu of a meeting;
setting forth specific procedures regarding how our stockholders may present proposals or nominate directors for election at stockholder meetings;
requiring advance notice and duration of ownership requirements for stockholder proposals;
permitting our board of directors to issue preferred stock without stockholder approval; and
limiting the rights of stockholders to amend our bylaws.

DESCRIPTION OF WARRANTS

We may issue warrants for the purchase of common stock or preferred stock or a combination thereof. Warrants may be issued independently or together with common stock or preferred stock and may be attached to or separate from any offered securities. Each series of warrants will be issued under a separate warrant agreement. This summary of some provisions of the warrants is not complete. You should refer to the warrant agreement relating to the specific warrants being offered for the complete terms of the warrants.

The particular terms of any issue of warrants will be described in the prospectus supplement relating to the issue. Those terms may include:

the number of shares of common stock or preferred stock purchasable upon the exercise of warrants to purchase such shares and the price at which such number of shares may be purchased upon such exercise;

the designation, stated value and terms (including, without limitation, liquidation, dividend, conversion and voting rights) of the series of preferred stock purchasable upon exercise of warrants to purchase preferred stock;

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the date on which the right to exercise the warrants will commence and the date on which the right will expire;
United States Federal income tax consequences applicable to the warrants;
provision for changes to or adjustments in the exercise price; and
any additional terms of the warrants, including terms, procedures, and limitations relating to the exchange, exercise and settlement of the warrants.

Holders of equity warrants will not be entitled to:

vote, consent or receive dividends;
receive notice as stockholders with respect to any meeting of stockholders for the election of our directors or any other matter; or

exercise any rights as stockholders of the Company.

DESCRIPTION OF UNITS

We may issue units comprised of one or more of the other classes of securities described in this prospectus in any combination. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The units may be issued under unit agreements to be entered into between us and a unit agent, as detailed in the prospectus supplement relating to the units being offered. The prospectus supplement will describe:

the designation and terms of the units and of the securities comprising the units, including whether and under what circumstances the securities comprising the units may be held or transferred separately;

a description of the terms of any unit agreement governing the units;

a description of the provisions for the payment, settlement, transfer or exchange of the units;

a discussion of material federal income tax considerations, if applicable; and

whether the units if issued as a separate security will be issued in fully registered or global form.

The descriptions of the units in this prospectus and in any prospectus supplement are summaries of the material provisions of the applicable agreements. These descriptions do not restate those agreements in their entirety and may not contain all the information that you may find useful. We urge you to read the applicable agreements because they, and not the summaries, define your rights as holders of the units. For more information, please review the forms of the relevant agreements, which will be filed with the SEC promptly after the offering of units and will be available as described under the heading **Where You Can Find More Information**.

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DESCRIPTION OF SUBSCRIPTION RIGHTS

We may issue subscription rights to purchase common stock, preferred stock or other securities described in this prospectus or any combination thereof. These subscription rights may be issued independently or together with any other security offered by us and may or may not be transferable by the securityholder receiving the subscription rights in such offering. In connection with any offering of subscription rights, we may enter into a standby arrangement with one or more underwriters or other investors pursuant to which the underwriters or other investors may be required to purchase any securities remaining unsubscribed for after such offering.

To the extent appropriate, the applicable prospectus supplement will describe the specific terms of the subscription rights to purchase shares of our securities offered thereby, including the following:

- the date of determining the securityholders entitled to the rights distribution;
- the price, if any, for the subscription rights;
- the exercise price payable for the common stock, preferred stock or other securities upon the exercise of the subscription right;
- the number of subscription rights issued to each securityholder;
- the amount of common stock, preferred stock, depositary shares or other securities that may be purchased per each subscription right;
- any provisions for adjustment of the amount of securities receivable upon exercise of the subscription rights or of the exercise price of the subscription rights;
- the extent to which the subscription rights are transferable;
- the date on which the right to exercise the subscription rights shall commence, and the date on which the subscription rights shall expire;
- the extent to which the subscription rights may include an over-subscription privilege with respect to unsubscribed securities;
- the material terms of any standby underwriting or purchase arrangement entered into by us in connection with the offering of subscription rights;
- any applicable federal income tax considerations; and
- any other terms of the subscription rights, including the terms, procedures and limitations relating to the transferability, exchange and exercise of the subscription rights.

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PLAN OF DISTRIBUTION

We may sell the securities offered through this prospectus (i) to or through underwriters or dealers, (ii) directly to purchasers, including our affiliates, (iii) through agents, or (iv) through a combination of any these methods. The securities may be distributed at a fixed price or prices, which may be changed, market prices prevailing at the time of sale, prices related to the prevailing market prices, or negotiated prices. The prospectus supplement will include the following information:

the terms of the offering;
the names of any underwriters or agents;
the name or names of any managing underwriter or underwriters;
the purchase price of the securities;
the net proceeds from the sale of the securities;
any delayed delivery arrangements;

any underwriting discounts, commissions or agency fees and other items constituting underwriters' or agents' compensation;

any initial public offering price;
any discounts or concessions allowed or reallocated or paid to dealers; and
any commissions paid to agents.

We may engage in at-the-market offerings into an existing trading market in accordance with Rule 415(a)(4). Any at-the-market offering will be through an underwriter or underwriters acting as principal or agent for us.

We may issue to the holders of our common stock on a pro rata basis for no consideration, subscription rights to purchase shares of our common stock or preferred stock. These subscription rights may or may not be transferable by stockholders. The applicable prospectus supplement will describe the specific terms of any offering of our common or preferred stock through the issuance of subscription rights, including the terms of the subscription rights offering, the terms, procedures and limitations relating to the exchange and exercise of the subscription rights and, if applicable, the material terms of any standby underwriting or purchase arrangement entered into by us in connection with the offering of common or preferred stock through the issuance of subscription rights.

Sale Through Underwriters or Dealers

If underwriters are used in the sale, the underwriters will acquire the securities for their own account, including through underwriting, purchase, security lending or repurchase agreements with us. The underwriters may resell the securities from time to time in one or more transactions, including negotiated transactions. Underwriters may sell the securities in order to facilitate transactions in any of our other securities (described in this prospectus or otherwise), including other public or private transactions and short sales. Underwriters may offer securities to the public either through underwriting syndicates represented by one or more managing underwriters or directly by one or more firms acting as underwriters. Unless otherwise indicated in the prospectus supplement, the obligations of the underwriters to purchase the securities will be subject to certain conditions, and the underwriters will be obligated to purchase all the offered securities if they purchase any of them. The underwriters may change from time to time any initial public offering price and any discounts or concessions allowed or reallocated or paid to dealers.

If dealers are used in the sale of securities offered through this prospectus, we will sell the securities to them as principals. They may then resell those securities to the public at varying prices determined by the dealers at the time of resale. The prospectus supplement will include the names of the dealers and the terms of the transaction.

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Direct Sales and Sales Through Agents

We may sell the securities offered through this prospectus directly. In this case, no underwriters or agents would be involved. Such securities may also be sold through agents designated from time to time. The prospectus supplement will name any agent involved in the offer or sale of the offered securities and will describe any commissions payable to the agent. Unless otherwise indicated in the prospectus supplement, any agent will agree to use its reasonable best efforts to solicit purchases for the period of its appointment.

We may sell the securities directly to institutional investors or others who may be deemed to be underwriters within the meaning of the Securities Act with respect to any sale of those securities. The terms of any such sales will be described in the prospectus supplement.

Delayed Delivery Contracts

If the prospectus supplement indicates, we may authorize agents, underwriters or dealers to solicit offers from certain types of institutions to purchase securities at the public offering price under delayed delivery contracts. These contracts would provide for payment and delivery on a specified date in the future. The contracts would be subject only to those conditions described in the prospectus supplement. The applicable prospectus supplement will describe the commission payable for solicitation of those contracts.

Market Making, Stabilization and Other Transactions

Unless the applicable prospectus supplement states otherwise, each series of offered securities will be a new issue and will have no established trading market. We may elect to list any series of offered securities on an exchange. Any underwriters that we use in the sale of offered securities may make a market in such securities, but may discontinue such market making at any time without notice. Therefore, we cannot assure you that the securities will have a liquid trading market.

Any underwriter may also engage in stabilizing transactions, syndicate covering transactions and penalty bids in accordance with Rule 104 under the Securities Exchange Act. Stabilizing transactions involve bids to purchase the underlying security in the open market for the purpose of pegging, fixing or maintaining the price of the securities. Syndicate covering transactions involve purchases of the securities in the open market after the distribution has been completed in order to cover syndicate short positions.

Penalty bids permit the underwriters to reclaim a selling concession from a syndicate member when the securities originally sold by the syndicate member are purchased in a syndicate covering transaction to cover syndicate short positions. Stabilizing transactions, syndicate covering transactions and penalty bids may cause the price of the securities to be higher than it would be in the absence of the transactions. The underwriters may, if they commence these transactions, discontinue them at any time.

Derivative Transactions and Hedging

We, the underwriters or other agents may engage in derivative transactions involving the securities. These derivatives may consist of short sale transactions and other hedging activities. The underwriters or agents may acquire a long or short position in the securities, hold or resell securities acquired and purchase options or futures on the securities and other derivative instruments with returns linked to or related to changes in the price of the securities. In order to

facilitate these derivative transactions, we may enter into security lending or repurchase agreements with the underwriters or agents. The underwriters or agents may effect the derivative transactions through sales of the securities to the public, including short sales, or by lending the securities in order to facilitate short sale transactions by others. The underwriters or agents may also use the securities purchased or borrowed from us or others (or, in the case of derivatives, securities received from us in settlement of those derivatives) to directly or indirectly settle sales of the securities or close out any related open borrowings of the securities.

Electronic Auctions

We may also make sales through the Internet or through other electronic means. Since we may from time to time elect to offer securities directly to the public, with or without the involvement of agents, underwriters or dealers, utilizing the Internet or other forms of electronic bidding or ordering systems for the pricing and allocation of such securities, you will want to pay particular attention to the description of that system we will provide in a prospectus supplement.

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Such electronic system may allow bidders to directly participate, through electronic access to an auction site, by submitting conditional offers to buy that are subject to acceptance by us, and which may directly affect the price or other terms and conditions at which such securities are sold. These bidding or ordering systems may present to each bidder, on a so-called real-time basis, relevant information to assist in making a bid, such as the clearing spread at which the offering would be sold, based on the bids submitted, and whether a bidder's individual bids would be accepted, prorated or rejected.

Upon completion of such an electronic auction process, securities will be allocated based on prices bid, terms of bid or other factors. The final offering price at which securities would be sold and the allocation of securities among bidders would be based in whole or in part on the results of the Internet or other electronic bidding process or auction.

General Information

Agents, underwriters, and dealers may be entitled, under agreements entered into with us, to indemnification by us against certain liabilities, including liabilities under the Securities Act. Our agents, underwriters, and dealers, or their affiliates, may be customers of, engage in transactions with or perform services for us, in the ordinary course of business.

The maximum consideration or discount to be received by any Financial Industry Regulatory Authority, or FINRA, member or independent broker dealer may not exceed 8.0% of the aggregate amount of the securities offered pursuant to this prospectus and any applicable prospectus supplement.

LEGAL MATTERS

Certain legal matters will be passed upon for us by Snell & Wilmer L.L.P., Costa Mesa, California. Additional legal matters may be passed upon for us, or any underwriters, dealers or agents, by counsel that we will name in the applicable prospectus supplement.

EXPERTS

The consolidated financial statements of Cryoport, Inc. as of March 31, 2016 and 2015 and for each of the years in the two-year period ended March 31, 2016, incorporated by reference herein, have been audited by KMJ Corbin & Company LLP, an independent registered public accounting firm, as stated in their report (which report expresses an unqualified opinion and includes an explanatory paragraph regarding the Company's ability to continue as a going concern) incorporated by reference herein, and have been so incorporated in reliance upon the report of such firm given upon their authority as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. We have also filed a registration statement on Form S-3, including exhibits, under the Securities Act with respect to the securities offered by this prospectus. This prospectus is part of the registration statement, but does not contain all of the information included in the registration statement or the exhibits. You may read and copy the registration statement and any other document that we file with the SEC at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the Public Reference

Room. Our SEC filings are also available to the public on the internet at a website maintained by the SEC located at *<http://www.sec.gov>*.

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INFORMATION INCORPORATED BY REFERENCE

The SEC allows us to incorporate by reference information into this document. This means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information incorporated by reference is considered to be a part of this document, except for any information superseded by information that is included directly in this document or incorporated by reference subsequent to the date of this document.

This prospectus incorporates by reference the documents listed below and any future filings that we make with the SEC under Section 13(a), 13(c), 14 or 15(d) of the Exchange Act (other than current reports on Form 8-K furnished under Item 2.02 or Item 7.01 and exhibits filed on such form that are related to such items), until all the securities offered under this prospectus are sold.

Our Annual Report on Form 10-K for the fiscal year ended March 31, 2016, filed with the SEC on June 28, 2016, as amended by Amendment No. 1 on Form 10-K/A for the fiscal year ended March 31, 2016, filed with the SEC on September 23, 2016;

Our Quarterly Report on Form 10-Q for the quarter ended June 30, 2016, filed with the SEC on August 15, 2016;

Our Quarterly Report on Form 10-Q for the quarter ended September 30, 2016, filed with the SEC on November 14, 2016;

Our Current Reports on Form 8-K, filed with the SEC on August 2, 2016, August 12, 2016, August 16, 2016 (as amended by Current Report on Form 8-K/A, filed with the SEC on August 16, 2016), September 23, 2016, October 4, 2016, October 17, 2016, November 3, 2016 (in each case, not including any information furnished under Items 2.02 or 7.01 of Form 8-K, including the related exhibits, which information is not incorporated by reference herein);

Our definitive proxy statement on Schedule 14A filed with the SEC on September 2, 2016, as amended by Amendment No. 1 to our proxy statement on Schedule 14A filed with the SEC on September 15, 2016; and

The descriptions of our common stock, preferred stock and warrants contained in our Registration Statement on Form 8-A, filed with the SEC on July 22, 2015, and any other amendment or report filed for the purposes of updating such descriptions.

Documents incorporated by reference are available from the SEC as described above or from us without charge, excluding any exhibits to those documents unless the exhibit is specifically incorporated by reference as an exhibit in this document. You can obtain documents incorporated by reference in this document by requesting them in writing or by telephone at the following address:

Cryoport, Inc.
17305 Daimler St.
Irvine, CA 92614
Attn: Chief Financial Officer
(949) 470-2300

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\$35,000,000

Common Stock

PROSPECTUS SUPPLEMENT

Jefferies

August 24, 2018
