POLARITYTE, INC.

Form 424B5 June 04, 2018

Filed pursuant to Rule 424(b)(5) Registration No. 333-219202 The information in this preliminary prospectus supplement is not complete and may be changed. A registration statement relating to these securities has been filed with the Securities and Exchange Commission and is effective. This preliminary prospectus supplement and the accompanying prospectus are not an offer to sell these securities and they are not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted. Subject to completion, dated June 4, 2018 PRELIMINARY PROSPECTUS SUPPLEMENT (To Prospectus Dated March 28, 2018) \$ PolarityTE, Inc. Common Stock We are offering shares of our common stock with an aggregate offering price of \$ million. Our common stock is listed on the Nasdaq Capital Market under the symbol "COOL." On June 1, 2018, the last reported sale price of our common stock on the Nasdaq Capital Market was \$27.32 per share.	
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The underwriter has agreed to purc	hase the common stock from us at a price of \$	per share, which will result ir
approximately \$ of proceeds	s to us, before offering expenses, and assuming no	exercise by the underwriters of
the option described below. The un	derwriters propose to offer the shares of common	stock from time to time for sale
in one or more transactions on The	NASDAQ Capital Market, the existing trading ma	arket for our common stock, in
negotiated transactions or otherwis	e at market prices prevailing at the time of sale, at	prices related to prevailing
market prices or at negotiated price	es, subject to receipt and acceptance by it and subject	ect to its right to reject any order
in whole or in part. See "Underwrit	ting."	

Our business and an investment in our securities involve a high degree of risk. See "Risk Factors" beginning on page S-4 of this prospectus supplement, in the accompanying prospectus and in the other documents that are incorporated by reference herein for a discussion of information that you should consider before investing in our securities.

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

We have granted the underwriter an option for a period of 30 days to purchase from us up to an additional shares of our common stock at the public offering price, less underwriting discounts and commissions. If the underwriter exercises its option in full, the total proceeds to us, before expenses, will be \$\therefore\text{...}

Delivery of the shares of common stock is expected to be made on or about June , 2018.

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The date of this prospectus supplement is June , 2018.

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You should rely only on the information contained in or incorporated by reference in this prospectus supplement and the accompanying prospectus. We have not, and the underwriter has not, authorized anyone to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. We are not, and the underwriter is not, making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted. You should assume that the information appearing in this prospectus supplement, the accompanying prospectus, and the documents incorporated by reference in this prospectus supplement and the accompanying prospectus, is accurate only as of the date of those respective documents. Our business, financial condition, results of operations and prospects may have changed since those dates. You should read this prospectus supplement, the accompanying prospectus, and the documents incorporated by reference in this prospectus supplement and the

accompanying prospectus, in their entirety before making an investment decision. You should also read and consider the information in the documents to which we have referred you in the sections of this prospectus supplement entitled "Where You Can Find More Information" and "Incorporation of Certain Documents by Reference."

About This Prospectus Supplement

This prospectus supplement and the accompanying prospectus relate to a registration statement (No. 333-219202) that we filed with the Securities and Exchange Commission (the "SEC") using a "shelf' registration process. Under this shelf registration process, we may, from time to time, in one or more offerings sell any combination of common stock, preferred stock, warrants or units, such combination not to exceed \$100,000,000 in the aggregate.

This prospectus supplement and the accompanying prospectus provide specific information about the offering by us of our securities under the shelf registration statement. This document is in two parts. The first part is this prospectus supplement, which describes the terms of this offering and also adds to and updates information contained in the accompanying prospectus and the documents incorporated by reference into this prospectus supplement and the accompanying prospectus. The second part, the accompanying prospectus dated March 28, 2018, including the documents incorporated by reference therein, provides more general information. Generally, when we refer to this prospectus, we are referring to both parts of this document combined. To the extent there is a conflict between the information contained in this prospectus supplement, on the one hand, and the information contained in the accompanying prospectus or in any document incorporated by reference that was filed with the SEC before the date of this prospectus supplement, on the other hand, you should rely on the information in this prospectus supplement. If any statement in one of these documents is inconsistent with a statement in another document having a later date—for example, a document incorporated by reference in the accompanying prospectus—the statement in the document having the later date modifies or supersedes the earlier statement.

Unless otherwise mentioned or unless the context requires otherwise, all references in this prospectus supplement to "PolarityTE," "the Company," "our company," "we," "us," "our" or similar references mean collectively PolarityTE, Inc. and is subsidiaries.

This prospectus supplement, the accompanying prospectus and the information incorporated herein and therein by reference include 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.

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PROSPECTUS SUPPLEMENT SUMMARY

This summary highlights information contained elsewhere in this prospectus supplement and the accompanying prospectus or incorporated by reference herein or therein. Because it is a summary, it does not contain all the information you should consider before investing in our common stock. You should carefully read this entire prospectus supplement and the accompanying prospectus, including the "Risk Factors" section beginning on page S-4 of this prospectus supplement, along with our consolidated financial statements and notes to those consolidated financial statements and the other information incorporated by reference in this prospectus supplement and the accompanying prospectus, before making an investment decision.

Overview

We are a commercial-stage biotechnology and regenerative biomaterials company focused on transforming the lives of patients by discovering, designing and developing a range of regenerative tissue products and biomaterials for the fields of medicine, biomedical engineering and material sciences. We believe that our PolarityTE platform technology is a new approach to pragmatic and functional tissue regeneration that has the potential to address many of the challenges currently facing the regenerative medicine and cell therapy markets to date. Recognizing the natural complexity of human tissue, our core "TE" platform begins with a small piece of the patient's own, or autologous, healthy tissue, rather than artificially manipulated individual cells. From this small piece of healthy autologous tissue, we create an easily deployable, dynamic and self-propagating product, which is designed to enhance and stimulate the patient's own cells to regenerate the target tissues. Rather than manufacturing with synthetic and foreign materials within artificially engineered environments, we believe our proprietary method promotes and accelerates the patient's tissues to undergo a form of effective regenerative healing, and uses the patient's own body to support the regenerative process to create the same tissue from which they were derived.

We believe our core "TE" platform has applications across many different indications, including, but not limited to, the regrowth of skin, bone, cartilage, fat, muscle, blood vessels and neural elements as well as solid and hollow organ composite tissue systems. Our first product, SkinTETM, is registered with the United States Food and Drug Administration ("FDA") pursuant to the regulatory pathway for human cells, tissues, and cellular and tissue-based products ("HCT/Ps") regulated solely under Section 361 of the Public Health Service Act ("361 HCT/Ps"), which permits qualifying products to be marketed without first obtaining FDA marketing authorization or approval, and is commercially available for the repair, reconstruction, replacement and regeneration of skin (i.e., homologous uses) for patients who have suffered from wounds, burns or injuries that require skin coverage over both small and large areas of their body.

To date, SkinTE has been used in a limited number of patients suffering from replacement of prior skin grafts, acute surgical reconstruction, acute wound treatment, chronic wound treatment, acute burn treatment, post-burn reconstruction, scar and contracture revision, keloid and hypertrophic scar revision, subacute burn and wound reconstruction, coverage and/or replacement of skin substitutes, failed skin graft replacement, failed flaps coverage and soft tissue coverage in previously infected defects. The results we have observed from the ongoing early stages of the human clinical application of SkinTE continue to be correlative with our preclinical observations.

Recent Developments

Asset Acquisition

On March 2, 2018, PolarityTE, along with its wholly owned subsidiary, Utah CRO Services, Inc., a Nevada corporation ("Acquisition Co."), entered into an asset purchase agreement (the "APA") with Ibex Group, L.L.C., a Utah limited liability company, and Ibex Preclinical Research, Inc., a Utah corporation (collectively the "Seller"). The transaction closed on May 3, 2018.

Under the APA the Company purchased from Seller the assets and rights to its preclinical research and veterinary sciences business and related real estate (as more fully described below). The business consists of a "good laboratory practices" (GLP) compliant preclinical research facility, including vivarium, operating rooms, preparation rooms, storage facilities, and surgical and imaging equipment.

The purchase price was \$1.6 million of which \$266,667 in cash was paid at closing and the balance by delivery of a promissory note to Seller for \$1,333,333 payable in five equal installments beginning on the six month anniversary of issuance and continuing on each six-month anniversary thereafter with interest at the rate of 3.5% per annum.

Concurrently with the execution and delivery of the APA, on March 2, 2018, the Company entered into a purchase and sale agreement (the "PSA") with Seller to purchase two parcels of real property in Cache County, Utah, consisting of approximately 1.75 combined gross acres of land, together with the buildings, structures, fixtures, and personal property located on the real property. The transaction also closed on May 3, 2018. The purchase price for the property was \$2.0 million, which was paid in cash at closing.

Preferred Stock Exchange and Conversion

On February 6, 2018, 15,756 Series B Preferred Shares were converted into 262,606 shares of common stock.

On March 6, 2018, we entered into separate exchange agreements with holders of 100% of our outstanding Series F Preferred Stock, and warrants to purchase shares of our common stock issued in connection with the Series F Preferred Stock (such warrants and Series F Preferred Stock collectively referred to as the "Exchange Securities") to exchange the Exchange Securities and unpaid dividends on the Series F Preferred Stock, for common stock (the "Exchange").

The Exchange resulted in the following issuances: (A) all outstanding shares of Series F Preferred Stock were exchanged into 972,067 shares of restricted common stock at an effective conversion price of \$18.26 per share of common stock (the closing price of our common stock on the Nasdaq Capital Market on February 26, 2018); (B) the right to receive 6% dividends underlying Series F Preferred Stock was terminated and in exchange 31,324 shares of restricted common stock were issued; and (C) 322,727 warrants to purchase common stock were exchanged for 151,872 shares of restricted common stock.

As part of the Exchange, the holders relinquished any and all rights related to the Exchange Securities, the respective governing and other related agreements and certificates of designation, including any related dividends, adjustment of conversion or exercise prices and repayment options. The registration rights agreement with the holders of the Series F Preferred Stock was terminated and the holders of the Series F Preferred Stock waived the Company's obligation to register the shares of common stock issuable upon conversion of Series F Preferred Stock or upon exercise of the warrants, and waived any damages, penalties and defaults related to the Company failing to file or have declared effective a registration statement covering those shares.

On March 6, 2018, we received conversion notices from holders of 100% of the then outstanding shares of Series A Preferred Stock, Series B Preferred Stock and Series E Preferred Stock and issued an aggregate of 7,949,252 shares of common stock to such holders (the "Conversions").

The shares of Series E Preferred Stock were held by Dr. Denver Lough, our Chief Executive Officer. On March 6, 2018, we entered into a registration rights agreement with Dr. Denver Lough, pursuant to which we agreed to file a registration statement to register the resale of 7,050,000 shares of common stock issued upon conversion of the Series E Preferred Stock within six months and to cause such registration statement to be declared effective by the SEC as promptly as possible following its filing. Any sales of shares under the registration statement are subject to certain limitations as specified with more particularity in the registration rights agreement. In connection with the Exchange, certain of the holders of Exchange Securities granted Dr. Lough an irrevocable proxy to vote an aggregate of 797,296 shares of common stock held by such holders at any vote of our stockholders. Following the Exchange, Dr. Lough is entitled to vote a total of 7,847,296 shares of common stock (inclusive of all shares which he beneficially owns and holds as of the date of this prospectus), plus any shares he acquires pursuant to the exercise of vested options, on any matter for which a vote of our stockholders is sought or required. In connection with this offering, Dr. Lough entered into a lock-up agreement with the underwriter that prevents him from selling any shares of our common stock during the period from the date of the underwriting agreement for this offering through October 9, 2018.

On March 7, 2018, we filed a Certificate of Elimination with the Secretary of State of the State of Delaware terminating our Series A, Series B, Series C, Series D, Series E and Series F Preferred Stock and thereafter no shares of our preferred stock remained so designated.

April 2018 Public Offering

On April 12, 2018, PolarityTE entered into an underwriting agreement with Cantor Fitzgerald & Co., as underwriter, relating to the issuance and sale of 2,335,937 shares (including the over-allotment option) of the Company's common stock at a public offering price of \$16.00 per share (the "Previous Offering"). The Previous Offering closed on April 16, 2018. The net proceeds to the Company from the Previous Offering was \$34,594,865, after deducting underwriting discounts and commissions and offering expenses paid by the Company.

Corporate Information

We were incorporated in 2004 in the state of Delaware. Effective January 11, 2017, we changed our name to PolarityTE, Inc. from "Majesco Entertainment Company."

Our principal executive offices are located at 1960 S 4250 W, Salt Lake City, UT 84104 and our telephone number is (385) 237-2279. Our web site address is www.PolarityTE.com. Information contained on, or that can be accessed through, our website does not constitute a part of this prospectus and is not incorporated by reference herein.

THE OFFERING

Common Stock Offered By Us

shares of our common stock, par value \$0.001 per share.

Common Stock Outstanding After this Offering

shares of our common stock.

Option to Purchase Additional Shares We have granted the underwriter an option for a period of up to 30 days from the date of this prospectus supplement to purchase up to an aggregate of additional shares of our common stock at the public offering price, less the underwriting discounts and commissions.

Use of Proceeds

We intend to use the net proceeds from this offering, after deducting underwriting discounts and commissions and estimated offering expenses, for research and development of our products and product candidates, efforts toward commercialization and required registration or approval of our products and product candidates with applicable regulatory authorities and for general corporate purposes. See "Use of Proceeds."

Risk Factors

See "Risk Factors" beginning on page S-4 of this prospectus supplement and the "Risk Factors" sections of our Annual Report on Form 10-K for the year ended October 30, 2017 and our Quarterly Report on Form 10-Q for the three months ended January 31, 2018 for a discussion of factors that you should read and consider before investing in our securities.

Nasdaq Capital Market Symbol

COOL

The number of shares of common stock to be outstanding after this offering as reflected above is based on the actual number of shares outstanding at April 30, 2018, which was 18,843,488 and does not include, as of that date:

4,593,068 shares of common stock issuable upon the exercise of outstanding options, with a weighted average exercise price of \$10.55 per share; and

1,995,780 shares of common stock reserved for future issuance under our equity incentive plans.

Except as otherwise indicated, all information in this prospectus supplement assumes:

no exercise by the underwriter of its option to purchase up to an additional shares of our common stock; and no exercise of the outstanding stock options described above.

RISK FACTORS

An investment in our securities involves a high degree of risk. Before deciding whether to invest in our securities, you should consider carefully the risks described below and discussed under the section captioned "Risk Factors" beginning on page 6 of the accompanying prospectus, together with other information in this prospectus supplement, the accompanying prospectus, and the documents incorporated by reference in this prospectus supplement and the accompanying prospectus. If any of these risks actually occurs, our business, financial condition or results of operations could be seriously harmed. This could cause the trading price of our common stock to decline, resulting in a loss of all or part of your investment.

Risks Related to This Offering

Our management will have broad discretion as to the use of the proceeds of this offering.

We have not designated the amount of net proceeds we will receive from this offering for any particular purpose. Accordingly, our management will have broad discretion as to the application of these net proceeds. You will be relying on the judgment of our management with regard to the use of these net proceeds, and you will not have the opportunity, as part of your investment decision, to assess whether the proceeds are being used appropriately. It is possible that, pending their use, we may invest the net proceeds in a way that does not yield a favorable, or any, return for the Company.

You will experience immediate and substantial dilution in the net tangible book value per share of the stock you purchase.

The public offering price of our common stock being offered is substantially higher than the net tangible book value per share of our common stock outstanding prior to this offering. Therefore, if you purchase our common stock in this offering, you will incur immediate substantial dilution of per share, representing the difference between our pro forma as adjusted net tangible book value as of January 31, 2018, after giving effect to the Exchange, Conversion, Previous Offering, and this offering, and the public offering price. If outstanding options or warrants to purchase our common stock are exercised, you will experience additional dilution. For a further description of the dilution that you will experience immediately after this offering, see "Dilution."

You may experience future dilution as a result of future equity offerings or other equity issuances.

To raise additional capital, we may in the future offer additional shares of our common stock, preferred stock or other securities convertible into or exchangeable for our common stock. We cannot assure you that we will be able to sell shares or other securities in any other offering at a price per share that is equal to or greater than the price per share paid by investors in this offering. The price per share at which we sell additional shares of our common stock or other securities convertible into or exchangeable for our common stock in future transactions may be higher or lower than the price per share in this offering.

Our stock price is likely to be volatile and the market price of our common stock after this offering may drop below the price you pay.

You should consider an investment in our common stock as risky and invest only if you can withstand a significant loss and wide fluctuations in the market value of your investment. You may be unable to sell your shares of common stock at or above the public offering price due to fluctuations in the market price of our common stock arising from changes in our operating performance or prospects. In addition, the stock market has recently experienced significant volatility, particularly with respect to life sciences company stocks. The volatility of life sciences company stocks often does not relate to the operating performance of the companies represented by the stock. Some of the factors that may cause the market price of our common stock to fluctuate or decrease below the price paid in this offering include:

our ability to develop and commercialize our lead product candidate, SkinTE;

results and timing of our clinical trials;

failure or discontinuation of any of our development programs;
issues in manufacturing our product candidates or future approved products;
issues in designing or constructing our commercial manufacturing facilities;
regulatory developments or enforcement in the United States and foreign countries with respect to our product candidates or our competitors' products;
competition from existing products or new products that may emerge;
developments or disputes concerning patents or other proprietary rights;
introduction of technological innovations or new commercial products by us or our competitors;
announcements by us, our collaborators or our competitors of significant acquisitions, strategic partnerships, joint ventures, collaborations or capital commitments;
changes in estimates or recommendations by securities analysts, if any, who cover our common stock;
fluctuations in the valuation of companies perceived by investors to be comparable to us;
public concern over our product candidates or any future approved products;
threatened or actual litigation;

future or anticipated sales of our common stock;
share price and volume fluctuations attributable to inconsistent trading volume levels of our shares;
additions or departures of key personnel;
changes in the structure of health care payment systems in the United States or overseas;
failure of any of our product candidates to achieve commercial success;
economic and other external factors or other disasters or crises;
period-to-period fluctuations in our financial condition and results of operations;
general market conditions and market conditions for biopharmaceutical stocks; and
overall fluctuations in U.S. equity markets.
In addition, in the past, when the market price of a stock has been volatile, holders of that stock have instituted securities class action litigation against the company that issued the stock. If any of our stockholders brought a lawsuit against us, we could incur substantial costs defending the lawsuit and divert the time and attention of our management, which could seriously harm our business.
Because we do not expect to declare cash dividends on our common stock in the foreseeable future, stockholders must rely on appreciation of the value of our common stock for any return on their investment.

While we have in the past declared and paid cash dividends on our capital stock, we currently anticipate that we will retain future earnings for the development, operation and expansion of our business and do not expect to declare or pay any additional cash dividends in the foreseeable future. As a result, only appreciation of the price of our common stock, if any, will provide a return to investors in this offering.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus supplement, the accompanying prospectus and the documents incorporated by reference herein and therein include "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). All statements other than statements of historical fact are "forward-looking statements" for purposes of this prospectus, the accompanying prospectus and the documents incorporated by reference herein and therein. In some cases, you can identify forward-looking statements by terminology such as "may," "could," "will," "would," "should," "expect "plan," "anticipate," "believe," "estimate," "intend," "predict," "seek," "contemplate," "project," "continue," "potential," "ong negative of these terms or other comparable terminology. These forward-looking statements include, but are not limited to, statements about:

our ability to develop and commercialize our lead product candidate, SkinTE;

how long we expect to maintain liquidity to fund our planned level of operations and our ability to obtain additional funds for our operations, including our estimates regarding expenses, future revenue, capital requirements and needs for additional financing;

the initiation, timing, progress and results of our research and development programs, preclinical studies, any clinical trials, or other regulatory submissions, including registration of our facilities and those of our contractors and/or listing of our product candidates with the United States Food and Drug Administration pursuant to the regulatory pathway for human cells, tissues, and cellular and tissue-based products (HCT/Ps) regulated solely under Section 361 of the Public Health Service Act (361 HCT/Ps), which permits qualifying products to be marketed without first obtaining FDA marketing authorization or approval;

our ability to identify and develop additional product candidates, including but not limited to OsteoTETM;

our or a potential collaborator's need or ability to obtain and maintain regulatory registration, listing or approval of any of our product candidates;

the rate and degree of market acceptance of any product candidates;

the commercialization of any product candidates;

our ability to establish and maintain collaborations and retain commercial rights for our product candidates in the collaborations;
the implementation of our business model and strategic plans for our business, technologies and product candidates;
our estimates of our expenses, ongoing losses, future revenue and capital requirements;
our ability to obtain and maintain intellectual property protection for our technologies and product candidates and our ability to operate our business without infringing the intellectual property rights of others;
our reliance on third parties to conduct any preclinical studies or clinical trials;
our reliance on third-party suppliers and manufacturers to supply the materials and components for, and manufacture, our research and development, preclinical trial, and commercialization supplies;
our ability to attract and retain qualified key management and technical personnel;
our financial performance;
developments relating to our competitors or our industry;
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costs of compliance and our failure to comply with new and existing governmental regulations;
loss or retirement of key members of management;
failure to successfully execute our growth strategy, including any delays in our planned future growth;
our failure to maintain effective internal controls; and
our expected use of proceeds from this offering.

These statements relate to future events or to our future financial performance and 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 these forward-looking statements. Factors that may cause actual results to differ materially from current expectations include, among other things, those set forth in the section titled "Risk Factors" beginning on page S-4 of this prospectus supplement and in the accompanying prospectus and the documents incorporated by reference herein and therein. Any forward-looking statement in this prospectus, the accompanying prospectus and the documents incorporated by reference herein and therein reflects our current view with respect to future events and is subject to these and other risks, uncertainties and assumptions relating to our operations, results of operations, industry and future growth. Given these uncertainties, you should not place undue reliance on these forward-looking statements. Except as required by law, we assume no obligation to update or revise these forward-looking statements for any reason, even if new information becomes available in the future.

This prospectus supplement, the accompanying prospectus and the documents incorporated by reference herein and therein also contain estimates, projections and other information concerning our industry, our business and the markets for certain products, including data regarding the estimated size of those markets, their projected growth rates and the incidence of certain medical conditions. Information that is based on estimates, forecasts, projections or similar methodologies is inherently subject to uncertainties and actual events or circumstances may differ materially from events and circumstances reflected in this information. Unless otherwise expressly stated, we obtained these industry, business, market and other data from reports, research surveys, studies and similar data prepared by third parties, industry, medical and general publications, government data and similar sources. In some cases, we do not expressly refer to the sources from which these data are derived.

USE OF PROCEEDS

We estimate that the net proceeds from this offering will be approximately \$ million, or approximately \$ million if the underwriter exercises in full its option to purchase additional shares of common stock, in each case after deducting underwriting discounts and commissions and estimated offering costs payable by us.

We intend to use the net proceeds from this offering for research and development of our products and product candidates, efforts toward commercialization and required registration or approval of our products and product candidates with applicable regulatory authorities and for general corporate purposes.

We have not determined the amounts we plan to spend or the timing of expenditures. As a result, our management will have broad discretion to allocate the net proceeds from the sale of the common stock that we may offer under this prospectus supplement and the accompanying prospectus.

Pending their ultimate use, we intend to invest the net proceeds in a variety of securities, including commercial paper, government and non-government debt securities and/or money market funds that invest in such securities.

DILUTION

Purchasers of common stock offered by this prospectus supplement and the accompanying prospectus will suffer immediate and substantial dilution in the net tangible book value per share of common stock. Our net tangible book value as of January 31, 2018 was approximately \$(0.51) per share of our common stock. Net tangible book value per share represents the amount of total tangible assets less total liabilities, divided by the number of shares of our common stock outstanding as of January 31, 2018.

After giving effect to the Exchange, the Conversions, and the April 2018 Offering, our pro forma net tangible book value as of January 31, 2018 would have been approximately \$46.5 million, or approximately \$2.47 per share of common stock, based on 18,843,488 shares of common stock outstanding on a pro forma basis.

After giving effect to (i) the Exchange, the Conversions, and the April 2018 Offering and (ii) the sale by us of shares of common stock in this offering at a public offering price of \$ per share, after deducting underwriting discounts and commissions and estimated offering expenses payable by us, our pro forma as adjusted net tangible book value as of January 31, 2018 would have been approximately \$ million, or approximately \$ per share. This represents an immediate increase in net tangible book value of approximately \$ per share to existing stockholders and an immediate dilution of approximately \$ per share to new investors purchasing shares of our common stock in this offering. The following table illustrates this per share dilution:

Public offering price per share of common stock
Historical net tangible book value per share as of January 31, 2018
Increase in net tangible book value per share attributable to the Exchange, the Conversions, and the April 2018 Offering
Pro forma net tangible book value per share
Pro forma net tangible book value per share attributable to this offering
Pro forma as adjusted net tangible book value per share
Pro forma as adjusted dilution per share to new investors participating in this offering

\$ 2.98

If the underwriter exercises in full its option to purchase additional shares of common stock at the public offering price, after deducting underwriting discounts and commissions and estimated offering expenses payable by us, the pro forma as adjusted net tangible book value of our common stock after this offering and after giving effect to the Exchange and the Conversions would be \$ per share, representing an immediate increase in net tangible book value of approximately \$ per share to existing stockholders and an immediate dilution of \$ per share to the investors in this offering.

The information above does not take into account further dilution to new investors that could occur upon the exercise of outstanding options having a per share exercise price less than the public offering price per share in this offering. In addition, we may choose to raise additional capital due to market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans. To the extent that additional capital is raised through the sale of equity or convertible debt securities, the issuance of these securities could result in further dilution to our stockholders.

The information above is based on 7,094,544 shares of common stock outstanding as of January 31, 2018, and 18,843,488 shares outstanding as of April 30, 2018, and excludes:

4,593,068 shares of common stock issuable upon the exercise of outstanding options, with a weighted average exercise price of \$10.55 per share; and

1,995,780 shares of common stock reserved for future issuance under our equity incentive plans.

PRICE RANGE OF OUR COMMON STOCK

Our common stock is listed on the Nasdaq Capital Market under the symbol "COOL." The market for our common stock has often been sporadic, volatile and limited.

The following table shows the high and low sales price per share of our common stock as reported by Nasdaq for the periods indicated.

	High	Low
Fiscal Year 2016		
First Quarter	\$13.68	\$3.66
Second Quarter	\$5.94	\$4.20
Third Quarter	\$6.30	\$3.66
Fourth Quarter	\$4.50	\$3.03
Fiscal Year 2017		
First Quarter	\$6.22	\$2.61
Second Quarter	\$18.90	\$3.80
Third Quarter	\$30.09	\$10.33
Fourth Quarter	\$32.63	\$17.61
Fiscal Year 2018		
First Quarter	\$31.49	\$19.30
Second Quarter	\$22.91	\$15.21

Holders of Common Stock . On June 1, 2018, we had 110 registered holders of record of our common stock. On June 1, 2018, the closing sales price of our common stock as reported on Nasdaq was 27.32 per share.

DIVIDEND POLICY

Prior to October 31, 2015, we had never declared or paid any dividends on our Common Stock.

We declared a special cash dividend of \$10,000,000 to be paid to holders of record on January 14, 2016 of our outstanding shares of: (i) Common Stock (ii) Series A Convertible Preferred Stock; (iii) Series B Convertible Preferred Stock; (iv) Series C Convertible Preferred Stock and (v) Series D Convertible Preferred Stock. The holders

of record of our outstanding preferred stock participated in receiving their pro rata portion of the dividend on an "as converted" basis. The dividend was paid January 15, 2016.

We currently anticipate that we will retain future earnings for the development, operation and expansion of our business and do not expect to declare or pay any cash dividends in the foreseeable future.

UNDERWRITING

Subject to the terms and conditions set forth in the underwriting agreement, dated June, 2018, between us and between us and Cantor Fitzgerald & Co., 499 Park Avenue, New York, New York 10022, as the sole book-running manager of this offering, we have agreed to sell to the underwriter, and the underwriter has agreed to purchase from us, the shares of common stock shown opposite its name below:

Number

Underwriter of

Shares

Cantor Fitzgerald & Co.

Total

The underwriting agreement provides that the obligations of the underwriter is subject to certain conditions precedent such as the receipt by the underwriter of officers' certificates and legal opinions and approval of certain legal matters by its counsel. The underwriting agreement provides that the underwriter will purchase all of the shares of common stock if any of them are purchased. We have agreed to indemnify the underwriter and certain of its controlling persons against certain liabilities, including liabilities under the Securities Act, and to contribute to payments that the underwriter may be required to make in respect of those liabilities.

The underwriters are offering the shares of common stock, subject to prior sale, when, as and if issued to and accepted by them, subject to approval of legal matters by their counsel and other conditions specified in the underwriting agreement. The underwriter reserves the right to withdraw, cancel or modify offers to the public and to reject orders in whole or in part.

Option to Purchase Additional Shares

We have granted to the underwriter an option, exercisable 30 days from the date of this prospectus supplement, to purchase, from time to time, in whole or in part, up to an aggregate of shares from us, initially at the public offering price set forth on the cover page of this prospectus supplement, less underwriting discounts and commissions. If the underwriter exercises this option, the underwriter will be obligated, subject to certain conditions, to purchase a number of additional shares approximately proportionate to the underwriter's initial purchase commitment as indicated in the table above.

Commission and Expenses

The underwriters are purchasing the shares of common stock from us at \$ per share (representing approximately \$ aggregate proceeds to us, before offering expenses). The underwriters may offer the shares of common stock from time to time to purchasers directly or through agents, or through brokers in brokerage transactions on The NASDAQ Capital Market, or to dealers in negotiated transactions or in a combination of such methods of sale, or otherwise, at a fixed price or prices, which may be changed, or at market prices prevailing at the time of sale, at prices related to such prevailing market prices or at negotiated prices. The difference between the price, at which the underwriters purchase shares from us and the price at which the underwriters resell such shares may be deemed underwriting compensation. If the underwriters effect such transactions by selling shares of common stock to or through dealers, such dealers may receive compensation in the form of discounts, concessions or commissions from the underwriters and/or purchasers of shares of common stock for whom they may act as agents or to whom they may sell as principal.

We estimate total offering expenses payable by us, excluding underwriting discounts and commissions, will be approximately \$70,000. We have agreed to reimburse the underwriter up to \$15,000 for its FINRA counsel fees and other expenses related to the offering. The foregoing payment is included in the total offering expenses. In accordance with FINRA Rule 5110, these payments to the underwriter and the Right are deemed underwriting compensation for this offering.

Listing

Our common stock is listed on The Nasdaq Capital Market under the trading symbol "COOL."

No Sales of Similar Securities

We, our officers and our directors have agreed, subject to certain specified exceptions, not to directly or indirectly, for a period of 90 days (through October 9, 2018, in the case of Dr. Denver Lough, our Chief Executive Officer) after the date of the underwriting agreement:

sell, offer to sell, contract to sell or lend, effect any short sale or establish or increase a Put Equivalent Position (as defined in Rule 16a-1(h) under the Exchange Act) or liquidate or decrease any Call Equivalent Position (as defined in Rule 16a-1(b) under the Exchange Act), pledge, hypothecate or grant any security interest in, or in any other way transfer or dispose of, any common stock or any securities convertible into or exchangeable or exercisable for common stock,

make any demand for, or exercise any right with respect to the registration of securities, or the filing of any registration statement, prospectus or prospectus supplement (or an amendment or supplement thereto) in connection therewith, under the Securities Act,

enter into any swap, hedge or other agreement or transaction that transfers, in whole or in part, the economic consequence of ownership of common stock, or securities exchangeable or exercisable for or convertible into shares of common stock, or

publicly announce an intention to do any of the foregoing.

In addition, we and each such person agrees that, without the prior written consent of the Representative, we or such other person will not, during the restricted period, make any demand for, or exercise any right with respect to, the registration of any shares of common stock or any security convertible into or exercisable or exchangeable for common stock.

The restrictions in the immediately preceding paragraph do not apply in certain circumstances, including:

as a bona fide gift or gifts; or

to any trust for the direct or indirect benefit of such person or the immediate family of such person (meaning any relationship by blood, marriage or adoption, not more remote than first cousin); or

pursuant to a qualified domestic order or in connection with a divorce settlement; or

by will or intestate succession to the legal representative, heir, beneficiary or immediate family of such person upon the death of such person.

The Representative may, in its sole discretion and at any time or from time to time before the termination of the 90-day (or through October 9, 2018, in the case of Dr. Denver Lough, our Chief Executive Officer) period release all or any portion of the securities subject to lock-up agreements.

Market Making, Stabilization and Other Transactions

The underwriter may make a market in the common stock as permitted by applicable laws and regulations. However, the underwriter is not obligated to do so, and the underwriter may discontinue any market-making activities at any time without notice in their sole discretion. Accordingly, no assurance can be given as to the liquidity of the trading market for the common stock, that you will be able to sell any of the common stock held by you at a particular time or that the prices that you receive when you sell will be favorable.

The underwriter has advised us that it, pursuant to Regulation M under the Securities Exchange Act of 1934, as amended, may engage in short sale transactions, stabilizing transactions, syndicate covering transactions or the imposition of penalty bids in connection with this offering. These activities may have the effect of stabilizing or maintaining the market price of the common stock at a level above that which might otherwise prevail in the open market. Establishing short sales positions may involve either "covered" short sales or "naked" short sales.

"Covered" short sales are sales made in an amount not greater than the underwriter's option to purchase additional shares of our common stock in this offering. The underwriter may close out any covered short position by either exercising their option to purchase additional shares of our common stock or purchasing shares of our common stock in the open market. In determining the source of shares to close out the covered short position, the underwriter will consider, among other things, the price of shares available for purchase in the open market as compared to the price at which they may purchase shares through the option to purchase additional shares.

"Naked" short sales are sales in excess of the option to purchase additional shares of our common stock. The underwriter must close out any naked short position by purchasing shares in the open market. A naked short position is more likely to be created if the underwriter is concerned that there may be downward pressure on the price of the shares of our common stock in the open market after pricing that could adversely affect investors who purchase in this offering.

A stabilizing bid is a bid for the purchase of shares of common stock on behalf of the underwriter for the purpose of fixing or maintaining the price of the common stock. A syndicate covering transaction is the bid for or the purchase of shares of common stock on behalf of the underwriter to reduce a short position incurred by the underwriter in connection with the offering. Similar to other purchase transactions, the underwriter's purchases to cover the syndicate short sales may have the effect of raising or maintaining the market price of our common stock or preventing or retarding a decline in the market price of our common stock. As a result, the price of our common stock may be higher than the price that might otherwise exist in the open market. A penalty bid is an arrangement permitting the underwriter to reclaim the selling concession otherwise accruing to a syndicate member in connection with the offering if the common stock originally sold by such syndicate member are purchased in a syndicate covering transaction and therefore have not been effectively placed by such syndicate member.

Neither we nor the underwriter make any representation or prediction as to the direction or magnitude of any effect that the transactions described above may have on the price of our common stock. The underwriter is not obligated to engage in these activities and, if commenced, may end any of these activities at any time.

Passive Market Making

The underwriter may also engage in passive market making transactions in our common stock on the Nasdaq in accordance with Rule 103 of Regulation M during a period before the commencement of offers or sales of shares of our common stock in this offering and extending through the completion of distribution. A passive market maker must display its bid at a price not in excess of the highest independent bid of that security. However, if all independent bids are lowered below the passive market maker's bid, that bid must then be lowered when specified purchase limits are exceeded. Passive market making may cause the price of our common stock to be higher than the price that otherwise would exist in the open market in the absence of those transactions. The underwriter is not required to engage in passive market making and, if commenced, may end passive market making activities at any time.

Electronic Distribution

A prospectus in electronic format may be made available by e-mail or on the web sites or through online services maintained by one or more of the underwriter, selling group members (if any) or their affiliates. The underwriter may agree with us to allocate a specific number of shares of common stock for sale to online brokerage account holders. Any such allocation for online distributions will be made by the underwriter on the same basis as other allocations. Other than the prospectus in electronic format, the information on the underwriter's web site and any information contained in any other web site maintained by the underwriter is not part of this prospectus supplement, has not been approved and/or endorsed by us or the underwriter and should not be relied upon by investors.

Other Activities and Relationships

The underwriter and certain of its affiliates are full service financial institutions engaged in a wide range of activities for their own accounts and the accounts of customers, which may include, among other things, corporate finance, mergers and acquisitions, merchant banking, equity and fixed income sales, trading and research, derivatives, foreign exchange, futures, asset management, custody, clearance and securities lending. The underwriter and certain of its affiliates have, from time to time, performed, and may in the future perform, various investment banking and financial advisory services for us and our affiliates, for which they received or will receive customary fees and expenses.

In addition, in the ordinary course of its business, the underwriter and its affiliates may, directly or indirectly, hold long or short positions, trade and otherwise conduct such activities in or with respect to debt or equity securities and/or bank debt of, and/or derivative products. Such investment and securities activities may involve our securities and instruments. The underwriter and its affiliates may also make investment recommendations or publish or express independent research views in respect of such securities or instruments and may at any time hold, or recommend to clients that they acquire, long or short positions in such securities and instruments.

Stamp Taxes

If you purchase shares of common stock offered in this prospectus supplement, you may be required to pay stamp taxes and other charges under the laws and practices of the country of purchase, in addition to the offering price listed on the cover page of this prospectus supplement.

Notice to Investors

Canada

This prospectus supplement constitutes an "exempt offering document" as defined in and for the purposes of applicable Canadian securities laws. No prospectus has been filed with any securities commission or similar regulatory authority in Canada in connection with the offer and sale of the common stock. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed upon this prospectus supplement or on the merits of the common stock and any representation to the contrary is an offence.

Canadian investors are advised that this prospectus supplement has been prepared in reliance on section 3A.3 of National Instrument 33-105 *Underwriting Conflicts* ("NI 33-105"). Pursuant to section 3A.3 of NI 33-105, this prospectus supplement is exempt from the requirement that the Company and the underwriter(s) provide investors with certain conflicts of interest disclosure pertaining to "connected issuer" and/or "related issuer" relationships that may exist between the Company and the underwriter(s) as would otherwise be required pursuant to subsection 2.1(1) of NI 33-105.

Resale Restrictions

The offer and sale of the common stock in Canada is being made on a private placement basis only and is exempt from the requirement that the Company prepares and files a prospectus under applicable Canadian securities laws. Any resale of the common stock acquired by a Canadian investor in this offering must be made in accordance with applicable Canadian securities laws, which may vary depending on the relevant jurisdiction, and which may require resales to be made in accordance with Canadian prospectus requirements, pursuant to a statutory exemption from the prospectus requirements, in a transaction exempt from the prospectus requirements or otherwise under a discretionary exemption from the prospectus requirements granted by the applicable local Canadian securities regulatory authority. These resale restrictions may under certain circumstances apply to resales of the common stock outside of Canada.

Representations of Purchasers

Each Canadian investor who purchases the common stock will be deemed to have represented to the Company and the underwriter(s) that the investor (i) is purchasing the common stock as principal, or is deemed to be purchasing as principal in accordance with applicable Canadian securities laws, for investment only and not with a view to resale or redistribution; (ii) is an "accredited investor" as such term is defined in section 1.1 of National Instrument 45-106 *Prospectus Exemptions* ("NI 45-106") or, in Ontario, as such term is defined in section 73.3(1) of the *Securities Act* (Ontario); and (iii) is a "permitted client" as such term is defined in section 1.1 of National Instrument 31-103 *Registration Requirements, Exemptions and Ongoing Registrant Obligations*.

Taxation and Eligibility for Investment

Any discussion of taxation and related matters contained in this prospectus supplement does not purport to be a comprehensive description of all of the tax considerations that may be relevant to a Canadian investor when deciding to purchase the common stock and, in particular, does not address any Canadian tax considerations. No representation or warranty is hereby made as to the tax consequences to a resident, or deemed resident, of Canada of an investment in the common stock or with respect to the eligibility of the common stock for investment by such investor under relevant Canadian federal and provincial legislation and regulations.

Rights of Action for Damages or Rescission

Securities legislation in certain of the Canadian jurisdictions provides certain purchasers of securities pursuant to an offering memorandum (such as this prospectus supplement), including where the distribution involves an "eligible foreign security" as such term is defined in Ontario Securities Commission Rule 45-501 *Ontario Prospectus and Registration Exemptions* and in Multilateral Instrument 45-107 *Listing Representation and Statutory Rights of Action Disclosure Exemptions*, as applicable, with a remedy for damages or rescission, or both, in addition to any other rights they may have at law, where the offering memorandum, or other offering document that constitutes an offering memorandum, and any amendment thereto, contains a "misrepresentation" as defined under applicable Canadian securities laws. These remedies, or notice with respect to these remedies, must be exercised or delivered, as the case may be, by the purchaser within the time limits prescribed under, and are subject to limitations and defences under, applicable Canadian securities legislation. In addition, these remedies are in addition to and without derogation from any other right or remedy available at law to the investor.

Language of Documents

Upon receipt of this document, each Canadian investor hereby confirms that it has expressly requested that all documents evidencing or relating in any way to the sale of the securities described herein (including for greater certainty any purchase confirmation or any notice) be drawn up in the English language only. Par la réception de ce document, chaque investisseur Canadien confirme par les présentes qu'il a expressément exigé que tous les documents faisant foi ou se rapportant de quelque manière que ce soit à la vente des valeurs mobilières décrites aux présentes (incluant, pour plus de certitude, toute confirmation d'achat ou tout avis) soient rédigés en anglais seulement.

Australia

This prospectus is not a disclosure document for the purposes of Australia's Corporations Act 2001 (Cth) of Australia, or Corporations Act, has not been lodged with the Australian Securities & Investments Commission and is only directed to the categories of exempt persons set out below. Accordingly, if you receive this prospectus in Australia:

You confirm and warrant that you are either:

- a "sophisticated investor" under section 708(8)(a) or (b) of the Corporations Act;
- a "sophisticated investor" under section 708(8)(c) or (d) of the Corporations Act and that you have provided an accountant's certificate to the company which complies with the requirements of section 708(8)(c)(i) or (ii) of the Corporations Act and related regulations before the offer has been made; or
- a "professional investor" within the meaning of section 708(11)(a) or (b) of the Corporations Act.

To the extent that you are unable to confirm or warrant that you are an exempt sophisticated investor or professional investor under the Corporations Act any offer made to you under this prospectus is void and incapable of acceptance.

You warrant and agree that you will not offer any of the shares issued to you pursuant to this prospectus for resale in Australia within 12 months of those securities being issued unless any such resale offer is exempt from the requirement to issue a disclosure document under section 708 of the Corporations Act.

European Economic Area

In relation to each member state of the European Economic Area which has implemented the Prospectus Directive, each referred to herein as a Relevant Member State, with effect from and including the date on which the Prospectus Directive is implemented in that Relevant Member State, referred to herein as the Relevant Implementation Date, no offer of any securities which are the subject of the offering contemplated by this prospectus has been or will be made to the public in that Relevant Member State other than any offer where a prospectus has been or will be published in relation to such securities that has been approved by the competent authority in that Relevant Member State or, where appropriate, approved in another Relevant Member State and notified to the relevant competent authority in that Relevant Member State in accordance with the Prospectus Directive, except that with effect from and including the Relevant Implementation Date, an offer of such securities may be made to the public in that Relevant Member State:

to any legal entity which is a "qualified investor" as defined in the Prospectus Directive;

to fewer than 100 or, if the Relevant Member State has implemented the relevant provision of the 2010 PD Amending Directive, 150, natural or legal persons (other than qualified investors as defined in the Prospectus Directive), as permitted under the Prospectus Directive, subject to obtaining the prior consent of the representatives of the underwriters for any such offer; or

in any other circumstances falling within Article 3(2) of the Prospectus Directive,

provided that no such offer of securities shall require the Company or any of the underwriters to publish a prospectus pursuant to Article 3 of the Prospectus Directive or supplement a prospectus pursuant to Article 16 of the Prospectus Directive.

For the purposes of this provision, the expression an "offer to the public" in relation to any securities in any Relevant Member State means the communication in any form and by any means of sufficient information on the terms of the offer and the securities to be offered so as to enable an investor to decide to purchase or subscribe the securities, as the same may be varied in that Relevant Member State by any measure implementing the Prospectus Directive in that Relevant Member State and the expression "Prospectus Directive" means Directive 2003/71/EC (and amendments thereto, including the 2010 PD Amending Directive, to the extent implemented in the Relevant Member State), and includes any relevant implementing measure in the Relevant Member State and the expression "2010 PD Amending Directive" means Directive 2010/73/EU.

Hong Kong

No securities have been offered or sold, and no securities may be offered or sold, in Hong Kong, by means of any document, other than to persons whose ordinary business is to buy or sell shares or debentures, whether as principal or agent; or to "professional investors" as defined in the Securities and Futures Ordinance (Cap. 571) of Hong Kong and any rules made under that Ordinance; or in other circumstances which do not result in the document being a "prospectus" as defined in the Companies Ordinance (Cap. 32) of Hong Kong or which do not constitute an offer to the public within the meaning of the Companies Ordinance (Cap.32) of Hong Kong. No document, invitation or advertisement relating to the securities has been issued or may be issued or may be in the possession of any person for the purpose of issue (in each case whether in Hong Kong or elsewhere), which is directed at, or the contents of which are likely to be accessed or read by, the public of Hong Kong (except if permitted under the securities laws of Hong Kong) other than with respect to securities which are or are intended to be disposed of only to persons outside Hong Kong or only to "professional investors" as defined in the Securities and Futures Ordinance (Cap. 571) of Hong Kong and any rules made under that Ordinance.

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This prospectus has not been registered with the Registrar of Companies in Hong Kong. Accordingly, this prospectus may not be issued, circulated or distributed in Hong Kong, and the securities may not be offered for subscription to members of the public in Hong Kong. Each person acquiring the securities will be required, and is deemed by the acquisition of the securities, to confirm that he is aware of the restriction on offers of the securities described in this prospectus and the relevant offering documents and that he is not acquiring, and has not been offered any securities in circumstances that contravene any such restrictions.

Japan

The offering has not been and will not be registered under the Financial Instruments and Exchange Law of Japan (Law No. 25 of 1948 of Japan, as amended), or FIEL, and the Initial Purchaser will not offer or sell any securities, directly or indirectly, in Japan or to, or for the benefit of, any resident of Japan (which term as used herein means, unless otherwise provided herein, any person resident in Japan, including any corporation or other entity organized under the laws of Japan), or to others for re-offering or resale, directly or indirectly, in Japan or to a resident of Japan, except pursuant to an exemption from the registration requirements of, and otherwise in compliance with, the FIEL and any other applicable laws, regulations and ministerial guidelines of Japan.

Singapore

This prospectus has not been and will not be lodged or registered with the Monetary Authority of Singapore. Accordingly, this prospectus and any other document or material in connection with the offer or sale, or the invitation for subscription or purchase of the securities may not be issued, circulated or distributed, nor may the securities be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to the public or any member of the public in Singapore other than (i) to an institutional investor under Section 274 of the Securities and Futures Act, Chapter 289 of Singapore, or the SFA, (ii) to a relevant person as defined under Section 275(2), or any person pursuant to Section 275(1A) of the SFA, and in accordance with the conditions, specified in Section 275 of the SFA, or (iii) otherwise pursuant to, and in accordance with the conditions of any other applicable provision of the SFA.

Where the securities are subscribed or purchased under Section 275 of the SFA by a relevant person which is:

a corporation (which is not an accredited investor as defined under Section 4A of the SFA) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited investor; or

a trust (where the trustee is not an accredited investor) whose sole purpose is to hold investments and each beneficiary is an accredited investor,

shares, debentures and units of shares and debentures of that corporation or the beneficiaries' rights and interest in that trust shall not be transferable for six months after that corporation or that trust has acquired the Offer Shares under Section 275 of the SFA except:

to an institutional investor under Section 274 of the SFA or to a relevant person defined in Section 275(2) of the SFA, or to any person pursuant to an offer that is made on terms that such shares, debentures and units of shares and debentures of that corporation or such rights and interest in that trust are acquired at a consideration of not less than \$200,000 (or its equivalent in a foreign currency) for each transaction, whether such amount is to be paid for in cash or by exchange of securities or other assets, and further for corporations, in accordance with the conditions, specified in Section 275 of the SFA;

where no consideration is given for the transfer; or

where the transfer is by operation of law.

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Switzerland

The securities may not be publicly offered in Switzerland and will not be listed on the SIX Swiss Exchange, or SIX, or on any other stock exchange or regulated trading facility in Switzerland. This prospectus has been prepared without regard to the disclosure standards for issuance prospectuses under art. 652a or art. 1156 of the Swiss Code of Obligations or the disclosure standards for listing prospectuses under art. 27 ff. of the SIX Listing Rules or the listing rules of any other stock exchange or regulated trading facility in Switzerland. Neither this prospectus nor any other offering or marketing material relating to the securities or the offering may be publicly distributed or otherwise made publicly available in Switzerland.

Neither this prospectus nor any other offering or marketing material relating to the offering, the Company or the securities have been or will be filed with or approved by any Swiss regulatory authority. In particular, this prospectus will not be filed with, and the offer of securities will not be supervised by, the Swiss Financial Market Supervisory Authority FINMA, or FINMA, and the offer of securities has not been and will not be authorized under the Swiss Federal Act on Collective Investment Schemes, or CISA. The investor protection afforded to acquirers of interests in collective investment schemes under the CISA does not extend to acquirers of securities.

Israel

This document does not constitute a prospectus under the Israeli Securities Law, 5728-1968, or the Securities Law, and has not been filed with or approved by the Israel Securities Authority. In the State of Israel, this document is being distributed only to, and is directed only at, and any offer of the shares is directed only at, investors listed in the first addendum, or the Addendum, to the Israeli Securities Law, consisting primarily of joint investment in trust funds, provident funds, insurance companies, banks, portfolio managers, investment advisors, members of the Tel Aviv Stock Exchange, underwriters, venture capital funds, entities with equity in excess of NIS 50 million and "qualified individuals", each as defined in the Addendum (as it may be amended from time to time), collectively referred to as qualified investors (in each case purchasing for their own account or, where permitted under the Addendum, for the accounts of their clients who are investors listed in the Addendum). Qualified investors will be required to submit written confirmation that they fall within the scope of the Addendum, are aware of the meaning of same and agree to it.

United Kingdom

This prospectus is only being distributed to, and is only directed at, persons in the United Kingdom that are

qualified investors (as defined in the Prospectus Directive) that are also (i) investment professionals falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, as amended, referred to herein as the Order, and/or (ii) high net worth entities falling within Article 49(2)(a) to (d) of the Order and other persons to whom it may lawfully be communicated. Each such person is referred to herein as a Relevant Person.

This prospectus and its contents are confidential and should not be distributed, published or reproduced (in whole or in part) or disclosed by recipients to any other persons in the United Kingdom. Any person in the United Kingdom that is not a Relevant Person should not act or rely on this document or any of its contents.

LEGAL MATTERS

Parsons Behle & Latimer, Salt Lake City, Utah, will pass on the validity of the shares of common stock offered by this prospectus supplement and the accompanying prospectus. Covington & Burling LLP, New York, New York, is counsel for the underwriter in connection with this offering.

EXPERTS

The consolidated balance sheets of PolarityTE, Inc. and Subsidiaries as of October 31, 2017 and 2016, and the related consolidated statements of operations, stockholders' equity, and cash flows for each of the years then ended, have been audited by EisnerAmper LLP, independent registered public accounting firm, as stated in their report which is incorporated herein by reference, which report includes an explanatory paragraph about the existence of substantial doubt concerning our ability to continue as a going concern. Such financial statements have been incorporated herein by reference in reliance on the report of such firm given upon their authority as experts in accounting and auditing.

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WHERE YOU CAN FIND MORE INFORMATION

This prospectus supplement constitutes a part of a registration statement on Form S-3 filed under the Securities Act. As permitted by the SEC's rules, this prospectus supplement and the prospectus, which form a part of the registration statement, do not contain all the information that is included in the registration statement. You will find additional information about us in the registration statement. Any statements made in this prospectus supplement or the prospectus concerning legal documents are not necessarily complete and you should read the documents that are filed as exhibits to the registration statement or otherwise filed with the SEC for a more complete understanding of the document or matter.

We file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy any materials we file with the SEC at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. You may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. Our SEC filings are also available to the public over the Internet at the SEC's website at http://www.sec.gov.

INCORPORATION OF DOCUMENTS BY REFERENCE

We have filed a registration statement on Form S-3 with the SEC under the Securities Act. This prospectus supplement is part of the registration statement but the registration statement includes and incorporates by reference additional information and exhibits. The SEC permits us to "incorporate by reference" the information contained in documents we file with the SEC, which means that we can disclose important information to you by referring you to those documents rather than by including them in this prospectus supplement. Information that is incorporated by reference is considered to be part of this prospectus supplement and you should read it with the same care that you read this prospectus supplement. Information that we file later with the SEC will automatically update and supersede the information that is either contained, or incorporated by reference, in this prospectus supplement, and will be considered to be a part of this prospectus supplement from the date those documents are filed. We have filed with the SEC, and incorporate by reference in this prospectus supplement:

our Annual Report on Form 10-K for the year ended October 31, 2017 filed with the SEC on January 30, 2018, as amended by Amendment No. 1 on Form 10-K/A filed with the SEC on February 28, 2018;

our Quarterly Report on Form 10-Q for the quarter ended January 31, 2018 filed with the SEC on March 19, 2018;

our Current Reports on Form 8-K filed with the SEC on November 3, 2017, November 16, 2017, November 27, 2017, December 29, 2017, February 9, 2018, March 7, 2018 (as amended on March 8, 2018), March 8, 2018, April 11, 2018, April 13, 2018, April 24, 2018, May 1, 2018, and May 8, 2018;

the description of our common stock contained in our Registration Statement on Form 8-A filed with the SEC on January 21, 2005 (File No. 000-51128), including any amendment or report filed for the purpose of updating such description; and

all reports and other documents subsequently filed by us pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act after the date of this prospectus and prior to the termination of this offering.

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

The information about us contained in this prospectus should be read together with the information in the documents incorporated by reference. You may request a copy of any or all of these filings, at no cost, by writing or telephoning us at: 1960 S 4250 W, Salt Lake City, UT 84104, phone number 385-237-2279.

S-20

PROSPECTUS
\$100,000,000
Common Stock
Preferred Stock
Warrants
Units
We may from time to time, in one or more offerings at prices and on terms that we will determine at the time of each offering, sell common stock, preferred stock, warrants, or a combination of these securities, or units, for an aggregate initial offering price of up to \$100,000,000. This prospectus describes the general manner in which our securities may be offered using this prospectus. Each time we offer and sell securities, we will provide you with a prospectus supplement that will contain specific information about the terms of that offering. Any prospectus supplement may also add, update, or change information contained in 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.
This prospectus may not be used to offer and sell securities unless accompanied by a prospectus supplement.
Our common stock is currently traded on the Nasdaq Capital Market under the symbol "COOL." On March 23, 2018, the last reported sales price for our common stock was \$16.88 per share. We will apply to list any shares of common stock sold by us under this prospectus and any prospectus supplement on the Nasdaq Capital Market. The prospectus supplement will contain information, where applicable, as to any other listing of the securities on the Nasdaq Capital Market or any other securities market or exchange covered by the prospectus supplement.

The securities offered by this prospectus involve a high degree of risk. See "Risk Factors" beginning on page 6, in

addition to Risk Factors contained in the applicable prospectus supplement.

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

We may offer the securities directly or through agents or to or through underwriters or dealers. If any agents or underwriters are involved in the sale of the securities their names, and any applicable purchase price, fee, commission or discount arrangement between or among them, will be set forth, or will be calculable from the information set forth, in an accompanying prospectus supplement. We can sell the securities through agents, underwriters or dealers only with delivery of a prospectus supplement describing the method and terms of the offering of such securities. See "Plan of Distribution."

This prospectus is dated March 28, 2018

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You should rely only on the information contained or incorporated by reference in this prospectus or any prospectus supplement. We have not authorized anyone to provide you with information different from that contained or incorporated by reference into this prospectus. If any person does provide you with information that differs from what is contained or incorporated by reference in this prospectus, you should not rely on it. No dealer, salesperson or other person is authorized to give any information or to represent anything not contained in this prospectus. You should assume that the information contained in this prospectus or any prospectus supplement is accurate only as of the date on the front of the document and that any information contained in any document we have incorporated by reference is accurate only as of the date of the document incorporated by reference, regardless of the time of delivery of this prospectus or any prospectus supplement or any sale of a security. These documents are not an offer to sell or a solicitation of an offer to buy these securities in any circumstances under which the offer or solicitation is unlawful.

ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or SEC, using a "shelf" registration process. Under this shelf registration process, we may sell any combination of the securities described in this prospectus in one of more offerings up to a total dollar amount of proceeds of \$100,000,000. This prospectus describes the general manner in which our securities may be offered by this prospectus. 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, update or change information contained in this prospectus or in documents incorporated by reference in this prospectus. The prospectus supplement that contains specific information about the terms of the securities being offered may also include a discussion of certain U.S. Federal income tax consequences and any risk factors or other special considerations applicable to those securities. To the extent that any statement that we make in a prospectus supplement is inconsistent with statements made in this prospectus or in documents incorporated by reference in this prospectus, you should rely on the information in the prospectus supplement. You should carefully read both this prospectus and any prospectus supplement together with the additional information described under "Where You Can Find More Information" before buying any securities in this offering.

Unless the context otherwise requires, references to "we," "our," "us," "PolarityTE" or the "Company" in this prospectus mear PolarityTE, Inc., f/k/a Majesco Entertainment Company, a Delaware corporation, on a consolidated basis with its wholly-owned subsidiaries, as applicable.

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and the documents and information incorporated by reference in this prospectus include "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). All statements other than statements of historical fact are "forward-looking statements" for purposes of this prospectus and the documents and information incorporated by reference in this prospectus. In some cases, you can identify forward-looking statements by terminology such as "may," "could," "will," "would," "should," "expect," "plan," "anticipate," "estimate," "intend," "predict," "seek," "contemplate," "project," "continue," "potential," "ongoing," "goal," or the negative of or other comparable terminology. These forward-looking statements include, but are not limited to, statements about:

how long we expect to maintain liquidity to fund our planned level of operations and our ability to obtain additional funds for our operations;

the initiation, timing, progress and results of our research and development programs, preclinical studies, any clinical trials, or other regulatory submissions, including registration of our product candidates with the United States Food and Drug Administration pursuant to the regulatory pathway for human cells, tissues, and cellular and tissue-based products (HCT/Ps) regulated solely under Section 361 of the Public Health Service Act (361 HCT/Ps), which permits qualifying products to be marketed without first obtaining FDA marketing authorization or approval:

products (HCT/Ps) regulated solely under Section 361 of the Public Health Service Act (361 HCT/Ps), which permits qualifying products to be marketed without first obtaining FDA marketing authorization or approval;
our ability to identify and develop product candidates;
our or a potential collaborator's need or ability to obtain and maintain regulatory registration, listing or approval of any of our product candidates;
the rate and degree of market acceptance of any product candidates;
the commercialization of any product candidates;
our ability to establish and maintain collaborations and retain commercial rights for our product candidates in the collaborations;
4

the implementation of our business model and strategic plans for our business, technologies and product candidates;
our estimates of our expenses, ongoing losses, future revenue and capital requirements;
our ability to obtain and maintain intellectual property protection for our technologies and product candidates and our ability to operate our business without infringing the intellectual property rights of others;
our reliance on third parties to conduct any preclinical studies or clinical trials;
our reliance on third-party suppliers and manufacturers to supply the materials and components for, and manufacture our research and development, preclinical trial, and commercialization supplies;
our ability to attract and retain qualified key management and technical personnel;
our financial performance; and
developments relating to our competitors or our industry.
These statements relate to future events or to our future financial performance and involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially

These statements relate to future events or to our future financial performance and 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 these forward-looking statements. Factors that may cause actual results to differ materially from current expectations include, among other things, those set forth in the section titled "Risk Factors" below and for the reasons described elsewhere in this prospectus and the documents and information incorporated by reference in this prospectus. Any forward-looking statement in this prospectus and the documents and information incorporated by reference in this prospectus reflects our current view with respect to future events and is subject to these and other risks, uncertainties and assumptions relating to our operations, results of operations, industry and future growth. Given these uncertainties, you should not place undue reliance on these forward-looking statements. Except as required by law, we assume no obligation to update or revise these forward-looking statements for any reason, even if new information becomes available in the future.

This prospectus and the documents and information incorporated by reference in this prospectus also contain estimates, projections and other information concerning our industry, our business and the markets for certain products, including data regarding the estimated size of those markets, their projected growth rates and the incidence of certain medical conditions. Information that is based on estimates, forecasts, projections or similar methodologies is inherently subject to uncertainties and actual events or circumstances may differ materially from events and circumstances reflected in this information. Unless otherwise expressly stated, we obtained these industry, business, market and other data from reports, research surveys, studies and similar data prepared by third parties, industry, medical and general publications, government data and similar sources. In some cases, we do not expressly refer to the sources from which these data are derived.

ABOUT POLARITYTE, INC.

Overview

PolarityTETM is a commercial-stage biotechnology and regenerative biomaterials company focused on transforming the lives of patients by discovering, designing and developing a range of regenerative tissue products and biomaterials for the fields of medicine, biomedical engineering and material sciences. We believe that our PolarityTE platform technology is a new approach to pragmatic and functional tissue regeneration that has the potential to address many of the challenges currently facing the regenerative medicine and cell therapy markets to date. Recognizing the natural complexity of human tissue, our core "TE" platform begins with a small piece of the patient's own, or autologous, healthy tissue, rather than artificially manipulated individual cells. From this small piece of healthy autologous tissue, we create an easily deployable, dynamic and self-propagating product, which is designed to enhance and stimulate the patient's own cells to regenerate the target tissues. Rather than manufacturing with synthetic and foreign materials within artificially engineered environments, we believe our proprietary method promotes and accelerates the patient's tissues to undergo a form of effective regenerative healing, and uses the patient's own body to support the regenerative process to create the same tissue from which they were derived.

We are a clinical-stage biotechnology and life sciences company focused on the advancement of self-complexing intelligent regenerative materials. We believe our core "TE" platform has applications across many different indications, including, but not limited to, the regrowth of skin, bone, cartilage, fat, muscle, blood vessels and neural elements as well as solid and hollow organ composite tissue systems. Our first product, SkinTETM, is registered with the United States Food and Drug Administration ("FDA") pursuant to the regulatory pathway for human cells, tissues, and cellular and tissue-based products (HCT/Ps) regulated solely under Section 361 of the Public Health Service Act ("361 HCT/Ps"), which permits qualifying products to be marketed without first obtaining FDA marketing authorization or approval, and is commercially available for the repair, reconstruction, replacement and regeneration of skin (i.e., homologous uses) for patients who have suffered from wounds, burns or injuries that require skin coverage over both small and large areas of their body.

Corporate Information

We were incorporated in 2004 in the state of Delaware. Effective January 11, 2017, we changed our name to PolarityTE, Inc. from "Majesco Entertainment Company."

Our principal executive offices are located at 1960 S 4250 W, Salt Lake City, UT 84104 and our telephone number is (385) 237-2279. Our web site address is www.Polarityte.com. Information contained on, or that can be accessed through, our website does not constitute a part of this prospectus and is not incorporated by reference herein.

RISK FACTORS

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

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

USE OF PROCEEDS

Unless otherwise indicated in a prospectus supplement, we intend to use the net proceeds from the sale of the securities under this prospectus for general corporate purposes, including and for general working capital purposes. We may also use a portion of the net proceeds to acquire or invest in businesses and products that are complementary to our own, although we have no current plans, commitments or agreements with respect to any acquisitions as of the date of this prospectus.

DESCRIPTION OF COMMON STOCK

General

We are authorized to issue 250,000,000 shares of common stock, \$0.001 par value per share. As of March 26, 2018, we have 16,457,664 shares of common stock issued and outstanding.

Holders of our common stock are entitled to one vote per share. Our Restated Certificate of Incorporation does not provide for cumulative voting. Subject to the rights of the holders of shares of any series of preferred stock then outstanding, holders of our common stock are entitled to receive ratably such dividends, if any, as may be declared by our Board out of legally available funds. Subject to the rights of the holders of shares of any series of preferred stock then outstanding, upon liquidation, dissolution or winding-up, the holders of our common stock are entitled to share ratably in all of our assets which are legally available for distribution, after payment of or provision for all liabilities. The holders of our common stock have no preemptive, subscription, redemption or conversion rights.

DESCRIPTION OF PREFERRED STOCK

We are authorized to issue up to 25,000,000 shares of preferred stock, par value \$0.001 per share, from time to time in one or more series. As of March 26, 2018, we have no shares of preferred stock issued and outstanding.

Our Restated Certificate of Incorporation authorizes our board of directors to issue preferred stock from time to time with such designations, preferences, conversion or other rights, voting powers, restrictions, dividends or limitations as to dividends or other distributions, qualifications or terms or conditions of redemption as shall be determined by the Board of Directors for each class or series of stock. Preferred stock is available for possible future financings or acquisitions and for general corporate purposes without further authorization of stockholders unless such authorization is required by applicable law, the rules of the Nasdaq Capital Market or other securities exchange or market on which our stock is then listed or admitted to trading.

Our board of directors may authorize the issuance of preferred stock with voting or conversion rights that could adversely affect the voting power or other rights of the holders of common stock. The issuance of preferred stock, while providing flexibility in connection with possible acquisitions and other corporate purposes could, under some circumstances, have the effect of delaying, deferring or preventing a change in control of the Company.

A prospectus supplement relating to any series of preferred stock being offered will include specific terms relating to the offering. Such prospectus supplement will include:

the title and stated or par value of the preferred stock;

the number of shares of the preferred stock offered, the liquidation preference per share and the offering price of the preferred stock;

the dividend rate(s), period(s) and/or payment date(s) or method(s) of calculation thereof applicable to the preferred stock;

whether dividends shall be cumulative or non-cumulative and, if cumulative, the date from which dividends on the preferred stock shall accumulate;

the provisions for a sinking fund, if any, for the preferred stock;

any voting rights of the preferred stock;

the provisions for redemption, if applicable, of the preferred stock;

any listing of the preferred stock on any securities exchange;

the terms and conditions, if applicable, upon which the preferred stock will be convertible into our common stock, including the conversion price or the manner of calculating the conversion price and conversion period;

if appropriate, a discussion of Federal income tax consequences applicable to the preferred stock; and

any other specific terms, preferences, rights, limitations or restrictions of the preferred stock.

The terms, if any, on which the preferred stock may be convertible into or exchangeable for our common stock will also be stated in the preferred stock prospectus supplement. The terms will include provisions as to whether conversion or exchange is mandatory, at the option of the holder or at our option, and may include provisions pursuant to which the number of shares of our common stock to be received by the holders of preferred stock would be subject to adjustment.

DESCRIPTION OF WARRANTS

We may issue warrants for the purchase of preferred stock or common stock. Warrants may be issued independently or together with any preferred stock or common stock, and may be attached to or separate from any offered securities. Each series of warrants will be issued under a separate warrant agreement to be entered into between a warrant agent specified in the agreement and us. The warrant agent will act solely as our agent in connection with the warrants of that series and will not assume any obligation or relationship of agency or trust for or with any holders or beneficial owners of warrants. This summary of some provisions of the securities warrants is not complete. You should refer to the securities warrant agreement, including the forms of securities warrant certificate representing the securities warrant agreement and the securities warrants being offered for the complete terms of the securities warrant agreement and the securities warrants. The securities warrant agreement, together with the terms of the securities warrant certificate and securities warrants, will be filed with the SEC in connection with the offering of the specific warrants.

The applicable prospectus supplement will describe the following terms, where applicable, of the warrants in respect of which this prospectus is being delivered:

the title of the warrants;

the aggregate number of the warrants;

the price or prices at which the warrants will be issued;

the designation, amount and terms of the offered securities purchasable upon exercise of the warrants;

if applicable, the date on and after which the warrants and the offered securities purchasable upon exercise of the warrants will be separately transferable;

the terms of the securities purchasable upon exercise of such warrants and the procedures and conditions relating to the exercise of such warrants;

any provisions for adjustment of the number or amount of securities receivable upon exercise of the warrants or the exercise price of the warrants;

the price or prices at which and currency or currencies in which the offered securities purchasable upon exercise of the warrants may be purchased;

the date on which the right to exercise the warrants shall commence and the date on which the right shall expire;

the minimum or maximum amount of the warrants that may be exercised at any one time;

information with respect to book-entry procedures, if any;

if appropriate, a discussion of Federal income tax consequences; and

any other material terms of the warrants, including terms, procedures and limitations relating to the exchange and exercise of the warrants.

Warrants for the purchase of common stock or preferred stock will be offered and exercisable for U.S. dollars only. Warrants will be issued in registered form only.

Upon receipt of payment and the warrant certificate properly completed and duly executed at the corporate trust office of the warrant agent or any other office indicated in the applicable prospectus supplement, we will, as soon as practicable, forward the purchased securities. If less than all of the warrants represented by the warrant certificate are exercised, a new warrant certificate will be issued for the remaining warrants.

Prior to the exercise of any securities warrants to purchase preferred stock or common stock, holders of the warrants will not have any of the rights of holders of the common stock or preferred stock purchasable upon exercise, including in the case of securities warrants for the purchase of common stock or preferred stock, the right to vote or to receive any payments of dividends on the preferred stock or common stock purchasable upon exercise.

DESCRIPTION OF UNITS

As specified in the applicable prospectus supplement, we may issue units consisting of shares of common stock, shares of preferred stock or warrants or any combination of such securities.

The applicable prospectus supplement will specify the following terms of any units in respect of which this prospectus is being delivered:

the terms of the units and of any of the common stock, preferred stock and warrants comprising the units, including whether and under what circumstances the securities comprising the units may be traded separately;

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

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

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;

any over-allotment options under which underwriters may purchase additional securities from us;

the net proceeds from the sale of the securities

any delayed delivery arrangements

any underwriting discounts, commissions and other items constituting underwriters' compensation;

any initial public offering price;

any discounts or concessions allowed or reallowed or paid to dealers;

any commissions paid to agents; and

any securities exchange or market on which the securities may be listed.

Sale Through Underwriters or Dealers

Only underwriters named in the prospectus supplement are underwriters of the securities offered by the prospectus supplement.

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 reallowed 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.

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.

Continuous Offering Program

Without limiting the generality of the foregoing, we may enter into a continuous offering program equity distribution agreement with a broker-dealer, under which we may offer and sell shares of our common stock from time to time through a broker-dealer as our sales agent. If we enter into such a program, sales of the shares of common stock, if any, will be made by means of ordinary brokers' transactions on the Nasdaq Capital Market at market prices, block transactions and such other transactions as agreed upon by us and the broker-dealer. Under the terms of such a program, we also may sell shares of common stock to the broker-dealer, as principal for its own account at a price agreed upon at the time of sale. If we sell shares of common stock to such broker-dealer as principal, we will enter into a separate terms agreement with such broker-dealer, and we will describe this agreement in a separate prospectus supplement or pricing supplement.

Market Making, Stabilization and Other Transactions

Unless the applicable prospectus supplement states otherwise, other than our common stock all securities we offer under this prospectus will be a new issue and will have no established trading market. We may elect to list offered securities on an exchange or in the over-the-counter market. 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.

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.

LEGAL MATTERS

The validity of the issuance of the securities offered by this prospectus will be passed upon for us by Sichenzia Ross Ference Kesner LLP, New York, New York.

EXPERTS

The consolidated balance sheets of PolarityTE, Inc. and Subsidiaries as of October 31, 2017 and 2016, and the related consolidated statements of operations, stockholders' equity, and cash flows for each of the years then ended, have been audited by EisnerAmper LLP, independent registered public accounting firm, as stated in their report which is incorporated herein by reference, which report includes an explanatory paragraph about the existence of substantial doubt concerning our ability to continue as a going concern. Such financial statements have been incorporated herein by reference in reliance on 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 special reports, along with other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's website at http://www.sec.gov. You may also read and copy any document we file at the SEC's Public Reference Room at 100 F Street, NE, Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the Public Reference Room.

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

INCORPORATION OF CERTAIN DOCUMENTS BY REFERENCE

This prospectus is part of a registration statement filed with the SEC. The SEC allows us to "incorporate by reference" into this prospectus the information that we file with them, which means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is considered to be part of this prospectus, and information that we file later with the SEC, including all filings filed by the registrant pursuant to the Exchange Act after the date of the initial registration statement and prior to effectiveness of the registration statement, will automatically update and supersede this information. The following documents are incorporated by reference and made a part of this prospectus:

our Annual Report on Form 10-K for the year ended October 31, 2017 filed with the SEC on January 30, 2018, as amended by Amendment No. 1 on Form 10-K/A filed with the SEC on February 28, 2018;

Our Quarterly Report on Form 10-Q for the quarter ended January 31, 2018 filed with the SEC on March 19, 2018;

our Current Reports on Form 8-K filed with the SEC on November 3, 2017, November 16, 2017, November 27, 2017, December 29, 2017, February 9, 2018, March 7, 2018 (as amended on March 8, 2018) and March 8, 2018;

the description of our common stock contained in the our Registration Statement on Form 8-A filed with the SEC on January 21, 2005 (File No. 000-51128), including any amendment or report filed for the purpose of updating such description; and

all reports and other documents subsequently filed by us pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act after the date of this prospectus and prior to the termination of this offering.

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

The information about us contained in this prospectus should be read together with the information in the documents incorporated by reference. You may request a copy of any or all of these filings, at no cost, by writing or telephoning us at: 1960 S 4250 W, Salt Lake city, UT 84104, phone number 385-237-2279.

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PolarityTE, Inc.
Common Stock
PROSPECTUS SUPPLEMENT
Sole Book-Running Manager
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