

BIOTIME INC

Form S-3/A

August 21, 2013

As filed with the Securities and Exchange Commission on August 21, 2013

Registration No. 333-187710

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Amendment No. 1

to

FORM S-3

REGISTRATION STATEMENT UNDER
THE SECURITIES ACT OF 1933

BIOTIME, INC.

(Exact name of Registrant as specified in charter)

California

(State or other jurisdiction of incorporation or organization)

1301 Harbor Bay Parkway, Suite 100
Alameda, California 94502
(510) 521-3390

(Address, including zip code, and telephone number,
including area code, of Registrant's principal executive
offices)

94-3127919

(I.R.S. Employer Identification Number)

ROBERT W. PEABODY

Sr. Vice President and Chief Financial Officer
BioTime, Inc.

1301 Harbor Bay Parkway, Suite 100
Alameda, California 94502
(510) 521-3390

(Name, address, including zip code, and telephone
number, including area code, of agent for service)

Copies of all communications, including all communications sent to the agent for service, should be sent to:

RICHARD S. SOROKO, ESQ.

Thompson, Welch, Soroko & Gilbert LLP

3950 Civic Center Drive, Suite 300

San Rafael, California 94903

Tel. (415) 448-5000

Approximate date of commencement of proposed sale to the public: As soon as practicable after this Registration Statement becomes effective.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

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If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 of the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box. x

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box. o

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box. o

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Securities Exchange Act of 1934. (Check one):

Large accelerated filer o

Accelerated filer x

Non-accelerated filer o (Do not check if a smaller reporting company) Smaller reporting company o

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its Effective Date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

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The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

Subject to Completion, Dated August 21, 2013

PROSPECTUS

BIOTIME, INC.

11,463,464 Common Shares

8,000,000 Common Share Purchase Warrants

8,000,000 Common Shares Issuable Upon the Exercise of Warrants

This prospectus relates to 8,000,000 warrants to purchase our common shares (the “Contribution Warrants”) to be distributed by Asterias Biotherapeutics, Inc. (“Asterias”) to the holders of its Series A common stock following our issuance of the Contribution Warrants to Asterias pursuant to an Asset Contribution Agreement that we and Asterias have entered into with Geron Corporation (“Geron”). See “THE ASSET CONTRIBUTION AGREEMENT” and “PLAN OF DISTRIBUTION.” This prospectus also relates to the 8,000,000 common shares issuable upon the exercise of the Contribution Warrants.

In addition, this prospectus relates to common shares that either Asterias or Geron, as the case may be, may offer for sale after acquiring the common shares from us under the Asset Contribution Agreement. Under the Asset Contribution Agreement, we have agreed to issue to Asterias at least 8,902,077 common shares (the “Contribution Shares”) and we may elect to issue 2,561,387 additional common shares, a portion of which we may issue to Asterias, and a portion of which we may elect to issue to Geron. We do not expect to issue more than 187,500 common shares to Geron. See “THE ASSET CONTRIBUTION AGREEMENT.”

All of the net proceeds from the sale of common shares by Asterias will belong to Asterias, and all of the net proceeds from the sale of common shares by Geron will belong to Geron, and not to us. See “Use of Proceeds” on page 34.

The offering of common shares by Asterias through this prospectus will be deemed a primary “at-the market” offering by BioTime in which Asterias, as a statutory “underwriter” as defined in the Securities Act of 1933, as amended (the “Securities Act”), will offer those shares to the public through a registered broker-dealer. Asterias will also be deemed an underwriter with respect to the distribution of the Contribution Warrants to holders of Asterias Series A common stock.

Our common shares are quoted on the NYSE MKT under the symbol BTX. The closing price of our common shares on the NYSE MKT on August 20, 2013 was \$3.72. We plan to apply to list the Contribution Warrants on the NYSE MKT under the trading symbol _____. There was previously no public market for the Contribution Warrants.

These securities involve a high degree of risk and should be purchased only by persons who can afford the loss of their entire investment. See “Risk Factors” on page 16.

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

The date of this prospectus is _____, 2013

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PROSPECTUS SUMMARY

Some of the statements in this prospectus contain forward-looking statements within the meaning of Section 27A of the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”). These forward-looking statements reflect our current views with respect to future events or our financial performance, and involve certain known and unknown risks, uncertainties and other factors, including those identified below, which may cause our or our industry’s actual or future results, levels of activity, performance or achievements to differ materially from those expressed or implied by any forward-looking statements or from historical results. We intend the forward-looking statements to be covered by the safe harbor provisions for forward-looking statements contained in Section 27A of the Securities Act and Section 21E of the Exchange Act. Forward-looking statements include information concerning our possible or assumed future results of operations and statements preceded by, followed by, or that include the words “may,” “will,” “could,” “would,” “should,” “believe,” “expect,” “plan,” “anticipate,” “intend,” “estimate,” “predict,” “potential” or similar expressions.

Forward-looking statements are inherently subject to risks and uncertainties, many of which we cannot predict with accuracy and some of which we might not even anticipate. Although we believe that the expectations reflected in the forward-looking statements are based upon reasonable assumptions at the time made, we can give no assurance that the expectations will be achieved. Future events and actual results, financial and otherwise, may differ materially from the results discussed in the forward-looking statements. Readers are cautioned not to place undue reliance on these forward-looking statements. We have no duty to update or revise any forward-looking statements after the date of this prospectus or to conform them to actual results, new information, future events or otherwise.

Note to Holders of Asterias Series A Common Stock

Holders of shares of Asterias Series A common stock (“Series A Shares”) will be receiving this prospectus in connection with their receipt of Contribution Warrants that Asterias will distribute to holders of its Series A Shares. Asterias is making the Contribution Warrants Distribution under the terms of the Asset Contribution Agreement among Geron, Asterias, and us. This prospectus contains important information about us and information about the Asset Contribution Agreement and information about the Contribution Warrants. You should read this prospectus carefully.

While we do not believe that holders of Asterias Series A Shares who receive Contribution Warrants in the Contribution Warrants Distribution will have taxable income from their receipt of the Contribution Warrants it is possible that the Internal Revenue Service or other taxing authorities could assert that receipt of Contribution Warrants in the Contribution Warrants Distribution described in this prospectus would result in taxable income to holders of Series A Shares. You should consult your tax advisors concerning the tax consequences of the Contribution Warrants Distribution to you under any and all tax laws and regulations to which you are subject.

BioTime, Inc.

References to “we,” “us”, and “our” mean BioTime, Inc. and its subsidiaries unless the context otherwise indicates. In this regard, references to “we,” “us”, and “our” in the context of rights or obligations under any contract or agreement mean BioTime, Inc. only and not its subsidiaries.

Overview

We are a biotechnology company focused on the emerging field of regenerative medicine. Our core technologies center on stem cells capable of becoming all of the cell types in the human body, a property called pluripotency . Products made from these “pluripotent” stem cells are being developed by us and our subsidiaries for use in different medical specialties, including: neuroscience, oncology, orthopedics, and blood and vascular diseases. Our commercial strategy is heavily focused on near-term commercial opportunities including our current line of research

products such as PureStem™ human progenitor cells (which we previously called ACTCellerate™ cell lines) and associated ESpan™ culture media, HyStem® hydrogels, human embryonic stem cell lines, and royalties from Hextend®. Potential near term therapeutic and diagnostic product opportunities include Renevia™ (formerly known as HyStem®-Rx) as a cell delivery device expected to enter clinical trials in Europe in 2013, and the initiation of clinical studies of PanC-Dx™ as a novel blood-based cancer screen by the end of 2013. Our long-term strategic focus is to provide regenerative therapies for age-related degenerative diseases.

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“Regenerative medicine” refers to an emerging field of therapeutic product development that may allow all human cell and tissue types to be manufactured on an industrial scale. This new technology is made possible by the isolation of human embryonic stem (“hES”) cells, and by the development of “induced pluripotent stem (“iPS”) cells” which are created from regular cells of the human body using technology that allows adult cells to be “reprogrammed” into cells with pluripotency like young hES-like cells. These pluripotent hES and iPS cells have the unique property of being able to branch out into each and every kind of cell in the human body, including the cell types that make up the brain, the blood, the heart, the lungs, the liver, and other tissues. Unlike adult-derived stem cells that have limited potential to become different cell types, pluripotent stem cells may have vast potential to supply an array of new regenerative therapeutic products, especially those targeting the large and growing markets associated with age-related degenerative disease. Unlike pharmaceuticals that require a molecular target, therapeutic strategies in regenerative medicine are generally aimed at regenerating affected cells and tissues, and therefore may have broader applicability. Regenerative medicine represents a revolution in the field of biotechnology with the promise of providing therapies for diseases previously considered incurable.

Our commercial efforts in regenerative medicine include the development and sale of products designed for research applications in the near term as well as products designed for diagnostic and therapeutic applications in the medium and long term. We offer advanced human stem cell products and technology that can be used by researchers at universities and at companies in the bioscience and biopharmaceutical industries. We have developed research and clinical grade hES cell lines that we market for both basic research and therapeutic product development. Our subsidiary, ES Cell International Pte Ltd (“ESI”), has developed six hES cell lines that are among the best characterized and documented cell lines available today. Developed using current Good Manufacturing Practices (“cGMP”) that facilitate transition into clinical use, these hES cell lines are extensively characterized and five of the six cell lines currently have documented and publicly-available genomic sequences. The ESI hES cell lines are now included in the Stem Cell Registry of the National Institutes of Health (“NIH”), making them eligible for use in federally funded research, and all are available for purchase through <http://bioreagents.lifemapsc.com>. We also market human embryonic progenitor cells (“hEPCs”), which are called PureStemTM progenitors and were developed using ACTCellerateTM technology. These hEPCs are purified lineages of cells that are intermediate in the developmental process between embryonic stem cells and fully differentiated cells. We expect that hEPCs will simplify the scalable manufacture of highly purified and identified cell types and will possess the ability to become a wide array of cell types with potential applications in research, drug discovery, and human regenerative stem cell therapies. The PureStemTM progenitors are also available for purchase through <http://bioreagents.lifemapsc.com>.

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Research products can be marketed without regulatory or other governmental approval, and thus offer relatively near-term business opportunities, especially when compared to therapeutic products. The medical devices and diagnostics that we and our subsidiaries are developing will require regulatory approval for marketing, but the clinical trial and approval process for medical devices is often faster and less expensive than the process for the approval of new drugs and biological therapeutics. Our current and near-term product opportunities, combined with expected long-term revenues from the potentially very large revenue that could be derived from cell-based therapeutic products under development at our subsidiaries, provide us with a balanced commercial strategy. The value of this balance is apparent in the commercial field of regenerative medicine as competitors whose sole focus is on long-term therapeutic products have found it challenging to raise the requisite capital to fund clinical development.

Certain of our research products, such as *HyStem*[®] hydrogels and ESI hES lines have the advantage of being “translatable to the clinic” meaning that these products are available as economic research grade products and at a therapeutic grade, allowing researchers more assurance that they will be acceptable for use in future clinical trials.

Our *HyStem*[®] hydrogel product line is one of the components in our near-term revenue strategy. *HyStem*[®] is a patented biomaterial that mimics the human extracellular matrix, which is the network of molecules surrounding cells in organs and tissues that is essential to cellular function. Many tissue engineering and regenerative cell-based therapies will require the delivery of therapeutic cells in a matrix or scaffold to sustain cell survival after transplantation and to maintain proper cellular function. *HyStem*[®] is a unique hydrogel that has been shown to support cellular attachment and proliferation in vivo. Recent publications have highlighted the combined use of *HyStem*[®] hydrogels with *PureStem*[™] progenitors resulting in a combined product that produces cartilage-producing cell masses known as chondrocytes. We call this experimental product *HyStem*[®]-4D.

Renevia[™] (formerly known as *HyStem*[®]-Rx) is a clinical grade formulation of *HyStem*-C[®], a biocompatible, implantable hyaluronan and collagen-based matrix for cell delivery in human clinical applications. As an injectable product, *Renevia*[™] may address an immediate need in cosmetic and reconstructive surgeries and other procedures by improving the process of transplanting adipose derived cells, mesenchymal stem cells, or other adult stem cells. We will need to obtain approval by the U.S. Food and Drug Administration (“FDA”) and comparable regulatory agencies in foreign countries in order to market *Renevia*[™] as a medical device. We expect to initiate clinical trials for CE marketing in the European Union during 2013, subject to our receipt of regulatory approval to commence the trials.

Other *HyStem*[®] products are currently being used by researchers at a number of leading medical schools in pre-clinical studies of stem cell therapies to facilitate wound healing, for the treatment of ischemic stroke, brain cancer, and vocal fold scarring, and for myocardial infarct repair. Our *HyStem*[®] hydrogels may have other applications when combined with the diverse and scalable cell types our scientists have isolated from hES cells.

Our subsidiary, OncoCyte Corporation, is developing *PanC-Dx*[™], a novel non-invasive blood-based cancer screening test designed to detect the presence of various human cancers, including cancers of the breast, lung, bladder, uterus, stomach, and colon, during routine check-ups. OncoCyte intends to develop *PanC-Dx*[™] as a screen for breast and bladder cancer and to initially seek regulatory approval to market *PanC-Dx*[™] in Europe for one or both of those cancers before seeking regulatory approvals required to market the product in the U.S. and other countries.

Our subsidiary, LifeMap Sciences, markets *GeneCards*[®], the leading human gene database, as part of an integrated database suite that includes *LifeMap Discover*[™], the database of embryonic development, stem cell research and regenerative medicine; and *MalaCards*, the human disease database. LifeMap Sciences also markets *PanDaTox*, a database that can be used to identify genes and intergenic regions that are unclonable in *E. coli*, to aid in the discovery of new antibiotics and biotechnologically beneficial functional genes.

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LifeMap Sciences is also the internet sales and marketing arm of our research products for sale through the website <http://bioreagents.lifemapsc.com>. LifeMap Sciences will utilize its databases as part of its online marketing strategy for our research products to reach life sciences researchers at biotech and pharmaceutical companies and at academic institutions and research hospitals worldwide. We now offer 23 PureStemTMHEPC and five hES cell lines developed under cGMP by our subsidiary ESI for sale, and hES cell lines carrying inherited genetic diseases. The hES cell lines developed by ESI are included in the NIH Stem Cell Registry, making them eligible for use in federally funded research, and five of the six cell lines currently have documented and publicly-available genomic sequences.

We anticipate adding additional cell lines and related ESpanTM growth media and differentiation kits over time.

LifeMap Sciences will also market research products produced by other companies.

During January 2013, we entered into the Asset Contribution Agreement with our subsidiary Asterias and Geron Corporation pursuant to which Asterias will acquire a significant portfolio of patents and patent applications, cell lines, hES technology and know-how, and other assets related to potential therapeutic products in various stages of development. Two of the products under development that Asterias will acquire from Geron have already been used in early stage clinical trials involving a small number of patients. The completion of the transaction is subject to the satisfaction of certain conditions. See “THE ASSET CONTRIBUTION AGREEMENT.”

The products that Geron had under development from various cell types that Asterias will acquire from Geron are summarized in the following table:

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Product Description	Target Market	Estimated Number of Potential Patients	Status
OPC1 – Glial Cells	Spinal Cord Injury	25,000 patients	SCI Phase 1 Trial initiated in U.S. 5 Patients treated – no serious adverse events to date.
	Multiple Sclerosis	300,000 patients	
	Canavan's Disease ⁽¹⁾	Rare	Proof of principle achieved in animal models of spinal cord injury, MS spine and Canavan's Disease ⁽¹⁾
CM-1 Cardiomyocytes	Stroke	1 million new cases per year in U.S.	
	Heart Failure	5.7 million patients in U.S.	Cells derived and fully characterized (all normal cell functions verified in vitro ⁽²⁾).
	Myocardial Infarction	1.5 million patients per year in U.S.	Proof of concept in three animal models of disease. Scalable manufacturing established.
IC-1 – Islet Cells	Type 1 and some Type 2 Diabetes	12.5 million patients	First in man clinical trial designed. Cells derived and partly characterized (most, not all normal cell functions verified in vitro).
			Proof of concept in rodent diabetes model. Scalable manufacturing methods under development.
CHND-1 – Chondrocytes	Osteoarthritis	30 million patients	Cells derived and partly characterized (all normal cell functions verified in vitro).
VAC-2 – Dendritic Cells	Cancer	More than 12 million patients in U.S.	Early proof of concept in two animal models of disease. Cells derived and fully characterized (all normal cell functions verified in vitro).
			Scalable manufacturing methods under development.

<p>VAC-1 Autologous Monocyte – Derived Dendritic Cells (infused cells derived from the treated patient)</p>	<p>Cancer</p>	<p>Prostate: 240,000 cases per year in U.S.</p>	<p>Proof of concept established in multiple human in vitro systems. Phase I study in metastatic prostate cancer completed (Journal of Immunology, 2005, 174: 3798-3807).</p>
		<p>Acute myelogenous leukemia: more than 12,000 cases/year in U.S.</p>	<p>Phase I/II study in acute myelogenous leukemia completed. Manuscript in preparation.</p>

(1) Canavan’s Disease is a congenital neurological degenerative disease in which the growth of the myelin sheath surrounding nerves is inhibited resulting in mental retardation, loss of motor function, abnormal muscle tone, poor head control and enlarged head. Death usually occurs before age 4.

(2) In vitro means in tissue culture dishes.

Asterias has not yet determined which products it will seek to develop or the order of priority in which it will commence its product development efforts after the closing of the asset acquisition transaction under the Asset Contribution Agreement. The choice and prioritization of products for development from the acquired assets, and the cost and developmental time required to develop any of them, are not presently determinable due to many factors including the following:

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the functional state of the transferred cells, cell lines and other biological reagents cannot be determined until they are transferred to Asterias upon completion of the Asset Contribution and are then tested in an appropriate laboratory setting by qualified scientific personnel using validated equipment, which may not be completed for three to six months after the Asset Contribution;

Asterias will need to complete an analysis of third party competitive and alternative technology that, for example, may provide superior methods of manufacturing the cell types listed above. Alternative technology, if it exists, may or may not be available for in-licensing, and could potentially affect the choice of products to develop;

Asterias and BioTime will need to complete an analysis of products and technologies being developed by BioTime and our subsidiaries to determine whether any of those products or technologies may enhance or be substituted for any of the acquired Geron cell lines or technologies;

the inherent uncertainty of laboratory research and any clinical trials that Asterias may conduct;

the amount of capital that Asterias will have for its development programs, including potential sources of additional capital through research grants or collaborations with third parties;

the availability and recruitment of qualified personnel to carry out the analyses and evaluations described above;

the views of the United States Food and Drug Administration (FDA) and comparable foreign regulatory agencies on the pre-clinical product characterization studies required to file an Investigational New Drug Application (IND) in order to initiate human clinical testing of potential therapeutic products.

Asterias may also use the acquired assets, along with technology that it may develop itself or that it may acquire from third parties to pursue the development of other products. Asterias's product development efforts may be conducted by Asterias alone or in collaboration with others if suitable co-development arrangements can be made.

Plasma Volume Expander Products

We have developed and licensed manufacturing and marketing rights to Hextend[®], a physiologically balanced blood plasma volume expander used for the treatment of hypovolemia in surgery, emergency trauma treatment, and other applications. Hypovolemia is a condition caused by low blood volume, often from blood loss during surgery or from injury. Hextend[®] maintains circulatory system fluid volume and blood pressure and helps sustain vital organs during surgery or when a patient has sustained substantial blood loss due to an injury. Hextend[®] is the only blood plasma volume expander that contains lactate, multiple electrolytes, glucose, and a medically approved form of starch called hetastarch. Hextend[®] is sterile, so its use avoids the risk of infection. Health insurance reimbursements and HMO coverage now include the cost of Hextend[®] used in surgical procedures.

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Hextend® is manufactured and distributed in the United States by Hospira, Inc., and in South Korea by CJ CheilJedang Corp. (“CJ”), under license from us.

Business Strategy

One of our goals is to develop cell-based regenerative therapies for age-related degenerative disease. The degenerative diseases of aging meet several criteria that make them an attractive business opportunity. First, the elderly comprise a large and growing segment of the U.S. and world population. Second, chronic degenerative diseases account for nearly 75% of health care costs. Third, because many age-related diseases appear to be caused by the inherent limited capacity of aged human cells to regenerate damaged tissues in the body, our cell replacement technologies may eliminate the high costs associated with years of palliative care addressing these large markets.

Our effort in regenerative medicine also includes research on more than 200 purified, scalable, and novel human embryonic progenitor cell types produced from hES and iPS cells. This research has included extensive gene expression studies of the unique properties of the cells, as well as conditions that cause the cells to differentiate into many of the cell types in the body. We have filed patent applications on the compositions of these cells, the media in which they can be expanded, and a variety of uses of the cells, including drug discovery and cell replacement therapies. This novel manufacturing technology may provide us with a competitive advantage in producing highly purified, identified, and scalable cell types for potential use in therapy.

We have organized several subsidiaries to undertake our cell replacement therapeutic programs, diagnostic product programs, and our research product programs. We will partly or wholly fund these subsidiaries, recruit their management teams, assist them in acquiring technology, and provide general guidance for building the subsidiary companies. We may license patents and technology to the subsidiaries that we do not wholly own under agreements that will entitle us to receive royalty payments from the commercialization of products or technology developed by the subsidiaries.

During September 2012, we formed Asterias to acquire assets in the stem cell field for use in developing and commercializing products for regenerative medicine. During January 2013, Asterias entered into the Asset Contribution Agreement to acquire assets that Geron had used in its stem cell research and development programs.

We believe that the Asset Contribution Transaction will be a good strategic fit and presents a unique opportunity to enhance and expand the intellectual property estate of the BioTime family of companies and to position us for future growth in the regenerative medicine field. In evaluating the opportunity for Asterias to acquire Geron’s stem cell assets, we considered a number of potentially positive factors, including the following, which are not intended to be exhaustive and are not in any relative order of importance:

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the acquisition a significant intellectual property estate consisting of Geron's human hES patent portfolio of over 400 patents and patent applications that will be transferred or sublicensed to Asterias;

the complementary nature of our and Geron's assets in the hES cell field, giving Asterias multiple potential opportunities to advance products derived from hES cells;

the potential to leverage the combined technology expertise of BioTime and Asterias to provide enhanced research and development activities;

the potential expansion of a clinical product pipeline through Asterias's acquisition of OPC-1 cells previously in a Phase I clinical trial of hES cell-derived oligodendrocytes in patients with acute spinal cord injury, and a Phase II trial treating cancer with a dendritic cell therapeutic vaccine targeting telomerase; and

synergies associated with our and Geron's stem cell assets, merging foundational technologies and allowing Asterias to build upon the pluripotent stem cell technology platform.

By acquiring Geron's stem cell assets, Asterias will have the use of cell lines and other biological materials, patents, and technology developed by Geron over 12 years of work focused in the following complementary lines of research:

The establishment of cell banks of undifferentiated hES cells produced under current good manufacturing procedures "cGMP" and suitable for human therapeutic use;

The development of scalable differentiation methods which convert, at low cost, undifferentiated hES cells into functional cells suitable for human therapeutic cells that can be stored and distributed in the frozen state for "off-the-shelf" use;

The development of regulatory paradigms to satisfy both U.S. and European regulatory authority requirements to begin human clinical testing of products made from hES cells; and

The continuous filing and prosecution of patents covering inventions to protect commercialization rights, as well as consummating in-licenses to enable freedom to operate in a variety of fields.

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The following table shows our subsidiaries, their respective principal fields of business, our percentage ownership as of June 30, 2013, and the country where their principal business is located:

Subsidiary	Field of Business	BioTime Ownership	Country
ES Cell International Pte. Ltd.	Stem cell products for research, including clinical grade cell lines produced under cGMP	100%	Singapore
OncoCyte Corporation	Diagnosis and treatment of cancer	75.3%	USA
OrthoCyte Corporation	Orthopedic diseases, including osteoarthritis Age-related macular degeneration	100%	USA
Cell Cure Neurosciences, Ltd.	Multiple sclerosis	62.5%	Israel
ReCyte Therapeutics, Inc. (formerly Embryome Sciences, Inc.)	Parkinson's disease Vascular disorders, including cardiovascular-related diseases, vascular injuries, and acquired lymphedema	94.8%	USA
BioTime Asia, Limited	Endothelial progenitor cells for research and drug testing; iPS cell banking Ophthalmologic, skin, musculo-skeletal system, and hematologic diseases for Asian markets.	81%	Hong Kong
LifeMap Sciences, Inc.	Stem cell products for research Genetic, disease, and stem cell databases; sale of stem cell products for research	73.2%	USA
LifeMap Sciences, Ltd.	Stem cell database	(1)	Israel
Asterias Biotherapeutics, Inc.	Research, development and commercialization of human therapeutic products from stem cells	96.7%(2)	USA

(1) LifeMap Sciences, Ltd. is a wholly-owned subsidiary of LifeMap Sciences, Inc.

We expect our percentage ownership will be reduced to approximately 71.6% after Asterias issues common stock and warrants to us and issues common stock to Geron pursuant to the Asset Contribution Agreement, and sells (2) common stock and warrants to Romulus for cash in a related transaction, but prior to any future exercise of the warrants issued to us and to Romulus.

The joint ownership of subsidiaries with other investors will allow us to fund the expensive development costs of therapeutics in a manner that spreads the costs and risk and reduces our need to obtain more equity financing of our own that could be dilutive to our shareholders. In some cases, the co-investors in our subsidiaries may include other participants in the pharmaceutical or biotechnology industry and their affiliates. An example of this would be our investment in Cell Cure Neurosciences, which was made in concert with investments from Teva Pharmaceutical Industries, Ltd. and HBL-Hadasit Bio-Holdings, Ltd.

Another tenet of our business strategy is the development and sale of advanced human stem cell products and technologies that can be used by researchers at universities and other institutions, at companies in the bioscience and biopharmaceutical industries, and at other companies that provide research products to companies in those industries. By providing products and technologies that will be used by researchers and drug developers at larger institutions and corporations, we believe that we will be able to commercialize products more quickly and inexpensively, and realize greater revenues than would be possible with the development of therapeutic products alone.

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We have made the filing and prosecution of patent applications an integral part of our business strategy in order to protect our investment in our products and that we and our subsidiaries have developed or licensed from others.

The Asset Contribution

Under the Asset Contribution Agreement, Asterias will receive the following assets from Geron and us in exchange for Asterias securities and the assumption of certain liabilities (the “Asset Contribution”):

From Geron:

· certain patents and patent applications and all related active prosecution cases, trade secrets, know-how and certain other intellectual property rights, and all of Geron’s goodwill with respect to the technology of Geron directly related to the research, development and commercialization of certain products and know-how related to hES cells;

· certain biological materials and reagents (including master and working cell banks, original and seed banks, and research, pilot and GMP grade lots and finished product);

· certain laboratory equipment;

· certain contracts;

· certain books, records, lab notebooks, clinical trial documentation, files and data;

· certain regulatory filings for clinical trials for GRNOPC-1 for spinal cord injury, including the investigational new drug applications filed with the United States Food and Drug Administration for Geron’s Phase I safety study of oligodendrocyte progenitor (GRNOPC-1) cells in patients with neurologically complete, subacute spinal cord injury (Protocol No. CP35A007), and long term follow up of subjects who received GRNOPC1 (Protocol No. CP35A008), and the clinical trial for VACI for acute myelogenous leukemia, including a Phase I/II study of active immunotherapy with GRNVAC1, autologous mature dendritic cells transfected with mRNA encoding human telomerase reverse transcriptase (hTERT), in patients with acute myelogenous leukemia (AML) in complete remission (Protocol No. CP06-151) (the “Clinical Trials”); and

· certain abandoned or inactive patents and abandoned or inactive patent applications.

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We refer to the assets to be contributed to Asterias by Geron as the “Contributed Geron Assets.” In addition, Asterias will receive from Geron an exclusive sublicense of certain patents owned by the University of Colorado; University License Equity Holdings, Inc. relating to telomerase (the “Telomerase Sublicense”). The Telomerase Sublicense will entitle Asterias to use the sublicensed patents in the development of certain immunological treatments for cancer.

Under the Telomerase Sublicense, Asterias will pay Geron an up-front license fee, a small annual license maintenance fee, and a small royalty on sales of any products that Asterias may develop and commercialize using the sublicensed patents.

From Us:

8,902,077 BioTime common shares, which we refer to as the Contribution Shares, which for purposes of the Asset Contribution Agreement were valued at \$30,000,000, or \$3.37 per share, based upon the aggregate volume weighted-average per share closing price of our common shares as listed on the NYSE MKT for the twenty (20) consecutive trading days immediately preceding January 4, 2013 (the “Average Price”);

The Contribution Warrants to purchase 8,000,000 additional BioTime common shares, exercisable for a period of five years at a price of \$5.00 per share, subject to adjustment for certain transactions (See “DESCRIPTION OF SECURITIES—Contribution Warrants.”);

\$5,000,000 in cash, which we refer to as the “BioTime Cash Contribution”;

10% of the shares of common stock of our subsidiary OrthoCyte Corporation issued and outstanding as of January 4, 2013;

6% of the ordinary shares of our subsidiary Cell Cure Neurosciences, Ltd. issued and outstanding as of January 4, 2013; and

a quantity of five hES cell lines produced by our subsidiary ESI under “good manufacturing practices” sufficient to generate master cell banks, and non-exclusive, world-wide, royalty-free licenses to use those cell lines and certain patents pertaining to stem cell differentiation technology for any and all purposes (the “BioTime Stem Cell Assets”).

Cash Contribution to Asterias by Private Investor

In connection with the Asset Contribution, Asterias has also entered into a Stock and Warrant Purchase Agreement with Romulus Films, Ltd. (“Romulus”) pursuant to which Romulus has agreed to contribute \$5,000,000 in cash to Asterias for 2,136,000 shares of Asterias Series B common stock, par value \$0.0001 per share (“Asterias Series B Shares”) and warrants to purchase 350,000 additional Series B Shares. That investment will be made in conjunction with the closing of the Asset Contribution.

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If for any reason Romulus fails to make all or any portion of that \$5,000,000 contribution, we will contribute to Asterias additional cash, BioTime common shares, or a combination of cash and BioTime common shares in an amount equal in value to the cash not contributed by Romulus. Any BioTime common shares so contributed will be valued at the Average Price of \$3.37 per share, and we will receive the Asterias Series B Shares and Asterias warrants that Romulus would otherwise have received had it made the cash contribution to Asterias. Romulus could determine not to make its \$5,000,000 contribution to Asterias if the conditions to Romulus' obligations to purchase the Asterias Series B Shares and warrants under the Stock and Warrant Purchase Agreement are not met, or if Romulus defaults in performing its obligations under the Stock and Warrant Purchase Agreement. The sale of the Asterias Series B Shares and warrants to Romulus under the Stock and Warrant Purchase Agreement will occur concurrently with the consummation of the Asset Contribution transaction, and the consummation of the Asset Contribution is a condition of Romulus's obligation to purchase the Asterias Series B Shares and warrants. Other conditions to Romulus' obligation to purchase the Asterias Series B Shares and warrants include:

- Asterias' representations and warranties in the Stock and Warrant Purchase Agreement being true and correct in all material respects;
- Asterias having complied with all of its covenants under the Stock and Warrant Purchase Agreement;
- no Material Adverse Effect having occurred;
 - no litigation or other proceedings enjoining, delaying, prohibiting or restricting, and no judgment, order or writ of any governmental authority prohibiting or restricting, the consummation of either or both of the sale of the Asterias Series B Shares and warrants under the Stock and Warrant Purchase Agreement and the Asset Contribution transaction; and
- the Asset Contribution Agreement not having been amended, and neither we nor Asterias having waived material conditions, without Romulus' approval.

For purposes of the Stock and Warrant Purchase Agreement, "Material Adverse Effect" means any change that does, or would be reasonably expected to, have a material adverse effect on Asterias' business, operations, financial condition, or assets, provided, however, that none of the following shall be deemed either alone or in combination to constitute, and none of the following shall be taken into account in determining whether there has been or would be, a Material Adverse Effect: (a) any adverse effect resulting from or arising out of the announcement, pendency, or consummation of the transactions contemplated by the Stock and Warrant Purchase Agreement or the Asset Contribution Agreement; (b) any adverse effect resulting from or arising out of general economic conditions; (c) any adverse effect resulting from or arising out of general conditions in the industries in which Asterias or Geron operate; (d) any adverse effect resulting from or arising out of any natural disaster or any acts of terrorism, sabotage, military action or war or any escalation or worsening thereof; and (e) any adverse effect resulting from or arising out of any changes in any law, statute, rule or regulation, or the judicial or administrative interpretation thereof, or any change in generally accepted accounting principles.

Assumed Liabilities

At the closing of the Asset Contribution, Asterias will assume all obligations and liabilities of Geron and its affiliates relating to:

- the Contributed Geron Assets and attributable to periods, events or circumstances after the Asset Contribution;
- obligations of Geron and its affiliates to be performed following the Asset Contribution, under contracts included in the Contributed Geron Assets;

an appeal filed in the United States District Court in Civil Action No. C12-04813 (the “ViaCyte Appeal”) seeking the reversal of two adverse determinations by the United States Patent and Trademark Office’s Board of Patent Appeals and Interferences with respect to two patent applications in U.S. Patent Interference 105,734, involving US patent 7,510,876 (ViaCyte) and US patent application 11/960,477 (Geron), and U.S. Patent Interference 105,827 involving US patent 7,510,876 (ViaCyte) and US patent application 12/543,875 (Geron). Asterias will also assume the patent interferences upon which the ViaCyte Appeal is based, as well as certain oppositions filed by Geron against certain ViaCyte, Inc. patent filings in Australia and in the European Patent Office; provided, that Asterias will not assume expenses incurred by Geron relating to the appeal or the other ViaCyte patent interference and opposition proceedings prior to the closing of the Asset Contribution; and

·the Clinical Trials.

We refer to the obligations of Geron and its affiliates assumed by us as the “Assumed Geron Liabilities.”

Ownership of Asterias following the Asset Contribution

At the closing of the Asset Contribution, Asterias will issue to Geron, BioTime and Romulus the following Asterias securities:

To Geron, 6,537,779 shares of Asterias Series A common stock, par value \$0.0001 per share (“Asterias Series A Shares”);

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To BioTime, 21,773,340 Asterias Series B Shares, and warrants to purchase 3,150,000 Asterias Series B Shares, exercisable for a period of three years from the date of issue at an exercise price of \$5.00 per share; and

To Romulus, 2,136,000 Asterias Series B Shares, and warrants to purchase 350,000 additional Asterias Series B Shares exercisable for a period of three years from the date of issue at an exercise price of \$5.00 per share.

Immediately after the completion of the Asset Contribution, and before the Series A Distribution described below, we will hold approximately 71.6% of the Asterias common stock as a whole, Geron will hold 100% of the Asterias Series A Shares and approximately 21.4% of the Asterias common stock as a whole, and Romulus will hold approximately 7% of the Asterias common stock as a whole. The Asterias warrants that we and Romulus will receive will enable us and Romulus to increase our collective ownership in Asterias by approximately 2.2%, which would reduce Geron's ownership in Asterias to approximately 19.2%.

The Asterias Series A Shares and Asterias Series B Shares are identical in substantially all respects and will vote together as a single class, without distinction as to series on all matters except as may otherwise be required by Delaware law. The two significant differences between the Asterias Series A Shares and Asterias Series B shares are:

Asterias may declare and pay dividends or other distributions on Asterias Series A Shares without paying a corresponding dividend or distribution on the Asterias Series B Shares. This difference in dividend and distribution rights will allow Asterias make the Contribution Warrants Distribution to the holders of the Asterias Series A Shares.

The Asterias Series B Shares may be converted into Asterias Series A Shares, at Asterias' election, at any time by resolution of Asterias' Board of Directors after Asterias completes the BioTime Warrants Distribution. Each Asterias Series B Share will be convertible into one Asterias Series A Share.

Royalty Agreement

At the closing of the Asset Contribution, Asterias will enter into a Royalty Agreement with Geron pursuant to which Asterias will agree to pay Geron a 4% royalty on net sales (as defined in the Royalty Agreement), by Asterias or any affiliate or sales agent of Asterias, of any products that are developed and commercialized in reliance upon the patents contributed by Geron to Asterias. In the case of sales of such products by a person other than Asterias or an affiliate or sales agent of Asterias, Asterias will be required to pay Geron 50% of all royalties and cash payments received by Asterias or its affiliate in respect of a product sale.

Cash Investment in BioTime by Private Investor

In order to fund the BioTime Cash Contribution in the Asset Contribution, we have also entered into a Stock and Warrant Purchase Agreement with Romulus (the "Romulus Agreement") under which we sold to Romulus 1,350,000 common shares and warrants to purchase approximately 650,000 additional common shares (the "Investor Warrants") for \$5,000,000 in cash. The Investor Warrants are subject to substantially the same terms and conditions as the Contribution Warrants except that they will expire on January 13, 2016. Prior to the closing of the Asset Contribution, we may lend to Asterias some or all of the funds that we received from Romulus under the Romulus Agreement. Amounts loaned by us to Asterias, up to \$5,000,000 in the aggregate, will be credited towards the BioTime Cash Contribution upon the closing of the Asset Contribution, upon the cancellation of such indebtedness.

We have registered all of the common shares, Investor Warrants, and common shares issuable upon the exercise of the Investor Warrants, issued to Romulus under the Romulus Agreement for sale under the Securities Act.

The Series A Distribution

In the Asset Contribution Agreement, Geron has agreed to distribute to its stockholders, on a pro rata basis, the Asterias Series A Shares it receives from Asterias in the Asset Contribution (the "Series A Distribution"). Geron is required to make the Series A Distribution as soon as practicable following the closing of the Asset Contribution, subject to applicable legal requirements and certain other limitations. In lieu of distributing the Asterias Series A Shares in certain to-be-determined excluded jurisdictions, Geron will sell the Asterias Series A Shares that its stockholders who reside in those jurisdictions would otherwise receive and Geron will distribute the cash proceeds to those stockholders on a pro rata basis.

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The Contribution Warrants Distribution

Following that Series A Distribution by Geron, Asterias will distribute to the holders of Asterias Series A Shares, on a pro rata basis, the 8,000,000 Contribution Warrants that it will receive from us in the Asset Contribution. As a result of the Contribution Warrants Distribution, Asterias will not derive any future economic value from the Contribution Warrants and instead the value of the Contribution Warrants will benefit the holders of Asterias Series A Shares who receive the Contribution Warrants.

Additional Information

HyStem[®], Hextend[®] and PentaLyte[®] are registered trademarks of BioTime, Inc., and Renevia,[™]PureStem,[™]ESpan,[™] and ESpy[™] are trademarks of BioTime, Inc. ACTCellerate[™] is a trademark licensed to us by Advanced Cell Technology, Inc. ReCyte[™] is a trademark of ReCyte Therapeutics, Inc. PanC-Dx[™] is a trademark of OncoCyte Corporation. GeneCards[®] is a registered trademark of Yeda Research and Development Co. Ltd.

We were incorporated in 1990 in the state of California. Our principal executive offices are located at 1301 Harbor Bay Parkway, Alameda, California 94502. Our telephone number is (510) 521-3390.

Offering Summary

Warrants Offered 8,000,000 Contribution Warrants that Asterias will distribute to the holders of its Series A Shares following our issuance of the Contribution Warrants to Asterias pursuant to the Asset Contribution Agreement.

8,000,000 common shares issuable upon the exercise of the Contribution Warrants.

8,902,077 common shares that Asterias may offer for resale after we issue the shares to Asterias under the Asset Contribution Agreement.

Common Shares Offered Up to 2,561,387 additional common shares, a portion of which may be offered for resale by Asterias, and a portion (not expected to exceed 187,500 shares) of which may be offered for resale by Geron if we issue the shares to them under the Asset Contribution Agreement. We may issue a portion of the 2,561,387 shares to Asterias in lieu of contributing additional cash in the unexpected event that Romulus fails to make a \$5,000,000 cash investment in Asterias or if we determine to contribute additional shares and less cash to Asterias. We may elect to issue a portion of those shares to Geron under the Asset Contribution Agreement in lieu of cash to reimburse Geron for certain expenses up to \$750,000 in value. We presently anticipate that we would issue no more than 187,500 common shares to Geron for purposes of the expense reimbursement.

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Common Shares Outstanding 57,938,220 shares as of August 7, 2013.

How to Exercise

Contribution Warrants ·The Contribution Warrants will be evidenced by warrant certificates.

Contribution Warrants may be exercised by completing the purchase form on the back of the warrant certificate and delivering it, together with payment of the exercise price, to the Warrant Agent, American Stock Transfer & Trust Company, LLC, 6201 15th Avenue, Brooklyn, New York 11219.

Payment of the exercise price of the Contribution Warrants must be made in by personal check or bank cashier's check or by wire transfer.

So long as our common shares are publicly traded, the Contribution Warrants may not be exercised on any day on which the closing price of our common shares for the day is lower than the exercise price.

Other Terms of
the Contribution
Warrants

Each Contribution Warrant entitles the holder to purchase one common share at a price of \$5.00 per share. The Contribution Warrants will expire on ____, 2018 and may not be exercised after that date. The number of shares issuable upon the exercise of the Contribution Warrants and the exercise price per share will be proportionally adjusted in the event of a stock split, stock dividend, combination, or recapitalization of the common shares, or as a result of certain other transactions. See "DESCRIPTION OF SECURITIES—Contribution Warrants."

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RISK FACTORS

Our business is subject to various risks, including those described below. You should consider the following risk factors, together with all of the other information included in this prospectus, which could materially adversely affect our proposed operations, our business prospects, and financial condition, and the value of an investment in our business. There may be other factors that are not mentioned here or of which we are not presently aware that could also affect our business operations and prospects.

Risks Related to Our Business Operations

We have incurred operating losses since inception and we do not know if we will attain profitability

Our comprehensive net losses for the six months ended June 30, 2013 and the fiscal years ended December 31, 2012, 2011, and 2010 were \$15,105,097, \$21,362,524, \$17,535,587, and \$10,287,280, respectively, and we had an accumulated deficit of \$117,178,103 as of June 30, 2013 and \$101,895,712, \$80,470,009, and \$63,954,509, as of December 31, 2012, 2011, and 2010, respectively. Since inception, we have primarily financed our operations through the sale of equity securities, licensing fees, royalties on product sales by our licensees, and borrowings. More recently, we have financed a portion of our operations with research grants and subscription fees for the database products marketed by our subsidiary LifeMap Sciences. Ultimately, our ability to generate sufficient operating revenue to earn a profit depends upon our success in developing and marketing or licensing our products and technology.

We will spend a substantial amount of our capital on research and development but we might not succeed in developing products and technologies that are useful in medicine

· We are attempting to develop new medical products and technologies.

Many of our experimental products and technologies have not been applied in human medicine and have only been used in laboratory studies in vitro or in animals. These new products and technologies might not prove to be safe and efficacious in the human medical applications for which they were developed.

The experimentation we are doing is costly, time consuming, and uncertain as to its results. We incurred research and development expenses amounting to \$10,975,825, \$18,116,688, \$13,699,691, and \$8,191,314 during the six months ended June 30, 2013 and the fiscal years ended December 31, 2012, 2011, and 2010, respectively.

If we are successful in developing a new technology or product, refinement of the new technology or product and definition of the practical applications and limitations of the technology or product may take years and require the expenditure of large sums of money.

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Future clinical trials of new therapeutic products, particularly those products that are regulated as drugs or biological, will be very expensive and will take years to complete. We may not have the financial resources to fund clinical trials on our own and we may have to enter into licensing or collaborative arrangements with larger, well-capitalized pharmaceutical companies in order to bear the cost. Any such arrangements may be dilutive to our ownership or economic interest in the products we develop, and we might have to accept a royalty payment on the sale of the product rather than receiving the gross revenues from product sales.

Completion of the Asset Contribution will result in an increase in our operating expenses and losses on a consolidated basis

Asterias will use the stem cell assets that it will acquire from Geron for the research and development of products for regenerative medicine. Asterias's research and development efforts will involve substantial expense, including but not limited to hiring additional research and management personnel, and the rent of a new office and research facility, that will add to our losses on a consolidated basis for the near future.

Asterias will become a public company in connection with the completion of the Asset Contribution and the Series A Distribution. As a public company, Asterias will incur costs associated with audits of its financial statements, filing annual, quarterly, and other periodic reports with the SEC, holding annual shareholder meetings, listing its common shares for trading, and public relations and investor relations. These costs will be in addition to those incurred by BioTime for similar purposes.

As a developer of pharmaceutical products derived from hES or iPS cells, Asterias will face substantially the same kind of risks that affect our business, as well as the risks related to our industry generally.

Our success depends in part on the uncertain growth of the stem cell industry, which is still in its infancy

The success of our business of selling products for use in stem cell research depends on the growth of stem cell research, without which there may be no market or only a very small market for our products and technology. The likelihood that stem cell research will grow depends upon the successful development of stem cell products that can be used to treat disease or injuries in people or that can be used to facilitate the development of other pharmaceutical products. The growth in stem cell research also depends upon the availability of funding through private investment and government research grants.

There can be no assurance that any safe and efficacious human medical applications will be developed using stem cells or related technology.

Government-imposed bans, restrictions and religious, moral, and ethical concerns with respect to use of embryos or human embryonic stem cells in research and development could have a material adverse effect on the growth of the stem cell industry, even if research proves that useful medical products can be developed using human embryonic stem cells.

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Sales of our products to date have not been sufficient to generate an amount of revenue sufficient to cover our operating expenses

Hextend[®] is presently the only plasma expander product that we have on the market, and it is being sold only in the United States and South Korea. The royalty revenues that we have received from sales of *Hextend*[®] have not been sufficient to pay our operating expenses. This means that we need to successfully develop and market or license additional products and earn additional revenues in sufficient amounts to meet our operating expenses.

We are also beginning to bring our first stem cell research products to the market, but there is no assurance that we will succeed in generating significant revenues from the sale of those products.

Sales of the products we may develop will be adversely impacted by the availability of competing products

Sales of *Hextend*[®] have already been adversely impacted by the availability of other products that are commonly used in surgery and trauma care and sell at low prices.

In order to compete with other products, particularly those that sell at lower prices, our products will have to provide medically significant advantages.

Physicians and hospitals may be reluctant to try a new product due to the high degree of risk associated with the application of new technologies and products in the field of human medicine.

Competing products are being manufactured and marketed by established pharmaceutical companies. For example, B. Braun/McGaw presently markets *Hespan*[®], an artificial plasma volume expander, and Hospira and Baxter International, Inc. manufacture and sell a generic equivalent of *Hespan*[®]. Hospira also markets *Voluven*[®], a plasma volume expander containing a 6% low molecular weight hydroxyethyl starch in saline solution.

Competing products for the diagnosis and treatment of cancer are being manufactured and marketed by established pharmaceutical companies, and more cancer diagnostics and therapeutics are being developed by those companies and by other smaller biotechnology companies. Other companies, both large and small, are also working on the development of stem cell based therapies for the same diseases and disorders that are the focus of the research and development programs of our subsidiaries

There also is a risk that our competitors may succeed at developing safer or more effective products that could render our products and technologies obsolete or noncompetitive.

Sales of *Hextend*[®] could be adversely affected by a safety and use labeling change proposed by the FDA

Sales of *Hextend*[®] could be adversely affected if certain safety labeling changes proposed by the FDA go into effect. During June 2013, we were notified by the FDA that they believe that new safety labeling should be required for the entire class of hydroxyethyl starch products, including *Hextend*[®]. The proposed labeling change would include a boxed warning that would state that the use of *Hextend*[®] increases the risk of mortality and renal injury requiring renal replacement therapy in critically ill adult patients, including patients with sepsis and those admitted to the ICU, and that *Hextend*[®] should not be used in critically ill adult patients, including patients with sepsis and those admitted to the ICU. New warning and precaution information would also be required along with new information about contraindications, adverse reactions, and information about certain recent studies. The warning and precautions would state that the use of *Hextend*[®] should be avoided in patients with pre-existing renal dysfunction and in patients undergoing open heart surgery in association with cardiopulmonary bypass due to the risk of excessive bleeding.

We have submitted a rebuttal to the FDA requesting that their proposed labeling changes not apply to *Hextend*[®] because the data on which the FDA based its request studied the effects of hydroxyethyl starches in saline solutions

and not Hextend[®], while other studies that did evaluate the use of Hextend[®] suggest that Hextend[®] does not cause increased mortality and bleeding or severe renal injury, especially when used in volumes less than 1,500 ml. Moreover, FDA safety database information reveals that since the use of Hextend[®] began in 1999, based on approximately 5.7 million units of Hextend[®] distributed in the United States, there were only 10 reports of patients that experienced product related adverse events.

If the FDA determines to require the proposed labeling change, sales of Hextend[®] could be adversely affected. It is not possible at this time to determine what impact a labeling change applicable only to hydroxyethyl starch products other than Hextend[®] would have on our product since some users of hydroxyethyl starch in saline products might switch to Hextend[®] while others might elect to abandon the use of all hydroxyethyl starch products, including Hextend[®].

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We might need to issue additional equity or debt securities in order to raise additional capital needed to pay our operating expenses

We plan to continue to incur substantial research and product development expenses, largely through our subsidiaries, and we and our subsidiaries will need to raise additional capital to pay operating expenses until we are able to generate sufficient revenues from product sales, royalties, and license fees.

It is likely that additional sales of equity or debt securities will be required to meet our short-term capital needs, unless we receive substantial revenues from the sale of our new products or we are successful at licensing or sublicensing the technology that we develop or acquire from others and we receive substantial licensing fees and royalties.

Sales of additional equity securities by us or our subsidiaries could result in the dilution of the interests of present shareholders.

The amount and pace of research and development work that we and our subsidiaries can do or sponsor, and our ability to commence and complete clinical trials required to obtain regulatory approval to market our pharmaceutical and medical device products, depends upon the amount of money we have

At June 30, 2013, we had \$14,306,296 of cash and cash equivalents on hand. Although we have raised more than \$26,000,000 of equity capital during the six month period ended June 30, 2013, there can be no assurance that we or our subsidiaries will be able to raise additional funds on favorable terms or at all, or that any funds raised will be sufficient to permit us or our subsidiaries to develop and market our products and technology. Unless we and our subsidiaries are able to generate sufficient revenue or raise additional funds when needed, it is likely that we will be unable to continue our planned activities, even if we make progress in our research and development projects.

We may have to postpone some laboratory research and development work unless our cash resources increase through a growth in revenues or additional equity investment or borrowing.

Our business could be adversely affected if we lose the services of the key personnel upon whom we depend

Our stem cell research program is directed primarily by our Chief Executive Officer, Dr. Michael West. Asterias's stem cell research program will be directed primarily by its Chief Executive Officer Dr. Thomas Okarma, and by its President of Research and Development, Dr. Jane Lebkowski. The loss of the services of Dr. West, Dr. Okarma, or Dr. Lebkowski could have a material adverse effect on us.

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If we make strategic acquisitions, we will incur a variety of costs and might never realize the anticipated benefits

Our experience in independently identifying acquisition candidates and integrating their operations with ours is limited to our acquisitions of ESI in 2010, Glycosan Biosystems, Inc. and Cell Targeting, Inc. in 2011, and XenneX, Inc. in 2012. During January 2013 we entered into the Asset Contribution Agreement for our subsidiary Asterias to acquire stem cell related assets from Geron. If appropriate opportunities become available, we might attempt to acquire approved products, additional drug candidates, technologies or business that we believe are a strategic fit with our business. If we pursue any transaction of that sort, the process of negotiating the acquisition and integrating an acquired product, drug candidate, technology or business might result in operating difficulties and expenditures and might require significant management attention that would otherwise be available for ongoing development of our business, whether or not any such transaction is ever consummated. Moreover, we might never realize the anticipated benefits of any acquisition. Future acquisitions could result in potentially dilutive issuances of equity securities, the incurrence of debt, contingent liabilities, or impairment expenses related to goodwill, and impairment or amortization expenses related to other intangible assets, which could harm our financial condition.

Failure of our internal control over financial reporting could harm our business and financial results

Our management is responsible for establishing and maintaining adequate internal control over financial reporting. Internal control over financial reporting is a process to provide reasonable assurance regarding the reliability of financial reporting for external purposes in accordance with accounting principles generally accepted in the U.S. Internal control over financial reporting includes maintaining records that in reasonable detail accurately and fairly reflect our transactions; providing reasonable assurance that transactions are recorded as necessary for preparation of our financial statements; providing reasonable assurance that receipts and expenditures of our assets are made in accordance with management authorization; and providing reasonable assurance that unauthorized acquisition, use or disposition of our assets that could have a material effect on the financial statements would be prevented or detected on a timely basis. Because of its inherent limitations, internal control over financial reporting is not intended to provide absolute assurance that a misstatement of our financial statements would be prevented or detected. Our growth and entry into new products, technologies and markets will place significant additional pressure on our system of internal control over financial reporting. Any failure to maintain an effective system of internal control over financial reporting could limit our ability to report our financial results accurately and timely or to detect and prevent fraud.

Operating our business through subsidiaries, some of which are located in foreign countries, also adds to the complexity of our internal control over financial reporting and adds to the risk of a system failure, an undetected improper use or expenditure of funds or other resources by a subsidiary, or a failure to properly report a transaction or financial results of a subsidiary. We allocate certain expenses among BioTime itself and one or more of our subsidiaries, which creates a risk that the allocations we make may not accurately reflect the benefit of an expenditure or use of financial or other resources by BioTime as the parent company and the subsidiaries among which the allocations are made. An inaccurate allocation may impact our consolidated financial results, particularly in the case of subsidiaries that we do not wholly own since our financial statements include adjustments to reflect the minority ownership interests in our subsidiaries held by others.

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Our business and operations could suffer in the event of system failures

Despite the implementation of security measures, our internal computer systems and those of our contractors and consultants are vulnerable to damage from computer viruses, unauthorized access, natural disasters, terrorism, war and telecommunication and electrical failures. Such events could cause interruption of our operations. For example, the loss of data for our product candidates could result in delays in our regulatory filings and development efforts and significantly increase our costs. To the extent that any disruption or security breach was to result in a loss of or damage to our data, or inappropriate disclosure of confidential or proprietary information, we could incur liability and the development of our product candidates could be delayed.

Risks Related to Our Industry

We will face certain risks arising from regulatory, legal, and economic factors that affect our business and the business of other pharmaceutical development companies. Because we are a small company with limited revenues and limited capital resources, we may be less able to bear the financial impact of these risks than is the case with larger companies possessing substantial income and available capital.

If we do not receive regulatory approvals we will not be permitted to sell our pharmaceutical and medical device products

The pharmaceutical and medical device products that we and our subsidiaries develop cannot be sold until the United States Food and Drug Administration ("FDA") and corresponding foreign regulatory authorities approve the products for medical use. The need to obtain regulatory approval to market a new product means that:

We will have to conduct expensive and time-consuming clinical trials of new products. The full cost of conducting and completing clinical trials necessary to obtain FDA and foreign regulatory approval of a new product cannot be presently determined, but could exceed our current financial resources.

Clinical trials and the regulatory approval process for a pharmaceutical product can take several years to complete. As a result, we will incur the expense and delay inherent in seeking FDA and foreign regulatory approval of new products, even if the results of clinical trials are favorable.

Data obtained from preclinical and clinical studies is susceptible to varying interpretations that could delay, limit, or prevent regulatory agency approvals. Delays in the regulatory approval process or rejections of an application for approval of a new drug may be encountered as a result of changes in regulatory agency policy.

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Because the therapeutic products we are developing with hES and iPS technology involve the application of new technologies and approaches to medicine, the FDA or foreign regulatory agencies may subject those products to additional or more stringent review than drugs or biologicals derived from other technologies.

- A product that is approved may be subject to restrictions on use.
- The FDA can recall or withdraw approval of a product if problems arise.
- We will face similar regulatory issues in foreign countries.

Clinical trial failures can occur at any stage of the testing and we may experience numerous unforeseen events during, or as a result of, the clinical trial process that could delay or prevent commercialization of our current or future drug candidates

Clinical trial failures or delays can occur at any stage of the trials, and may be directly or indirectly caused by a variety of factors, including but not limited to:

- delays in securing clinical investigators or trial sites for our clinical trials;
- delays in obtaining Independent Review Board (“IRB”) and other regulatory approvals to commence a clinical trial;
- slower than anticipated rates of patient recruitment and enrollment, or failing to reach the targeted number of patients due to competition for patients from other trials,
- limited or no availability of coverage, reimbursement and adequate payment from health maintenance organizations and other third party payors for the use of agents used in our clinical trials;
- negative or inconclusive results from clinical trials;
- unforeseen side effects interrupting, delaying or halting clinical trials of our drug candidates, and possibly resulting in the FDA or other regulatory authorities denying approval of our drug candidates;
- unforeseen safety issues;
- uncertain dosing issues;
- approval and introduction of new therapies or changes in standards of practice or regulatory guidance that render our clinical trial endpoints or the targeting of our proposed indications obsolete;

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inability to monitor patients adequately during or after treatment or problems with investigator or patient compliance with the trial protocols;

inability to replicate in large controlled studies safety and efficacy data obtained from a limited number of patients in uncontrolled trials;

inability or unwillingness of medical investigators to follow our clinical protocols; and unavailability of clinical trial supplies.

Government-imposed bans or restrictions and religious, moral, and ethical concerns about the use of hES cells could prevent us from developing and successfully marketing stem cell products

Government-imposed bans or restrictions on the use of embryos or hES cells in research and development in the United States and abroad could generally constrain stem cell research, thereby limiting the market and demand for our products. During March 2009, President Obama lifted certain restrictions on federal funding of research involving the use of hES cells, and in accordance with President Obama's Executive Order, the NIH has adopted new guidelines for determining the eligibility of hES cell lines for use in federally funded research. The central focus of the proposed guidelines is to assure that hES cells used in federally funded research were derived from human embryos that were created for reproductive purposes, were no longer needed for this purpose, and were voluntarily donated for research purposes with the informed written consent of the donors. The hES cells that were derived from embryos created for research purposes rather than reproductive purposes, and other hES cells that were not derived in compliance with the guidelines, are not eligible for use in federally funded research.

California law requires that stem cell research be conducted under the oversight of a stem cell research oversight committee ("SCRO"). Many kinds of stem cell research, including the derivation of new hES cell lines, may only be conducted in California with the prior written approval of the SCRO. A SCRO could prohibit or impose restrictions on the research that we plan to do.

The use of hES cells gives rise to religious, moral, and ethical issues regarding the appropriate means of obtaining the cells and the appropriate use and disposal of the cells. These considerations could lead to more restrictive government regulations or could generally constrain stem cell research, thereby limiting the market and demand for our products.

If we are unable to obtain and enforce patents and to protect our trade secrets, others could use our technology to compete with us, which could limit opportunities for us to generate revenues by licensing our technology and selling products

Our success will depend in part on our ability to obtain and enforce patents and maintain trade secrets in the United States and in other countries. If we are unsuccessful at obtaining and enforcing patents, our competitors could use our technology and create products that compete with our products, without paying license fees or royalties to us.

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The preparation, filing, and prosecution of patent applications can be costly and time consuming. Our limited financial resources may not permit us to pursue patent protection of all of our technology and products throughout the world.

Even if we are able to obtain issued patents covering our technology or products, we may have to incur substantial legal fees and other expenses to enforce our patent rights in order to protect our technology and products from infringing uses. We may not have the financial resources to finance the litigation required to preserve our patent and trade secret rights.

There is no certainty that our pending or future patent applications will result in the issuance of patents

We have filed patent applications for technology that we have developed, and we have obtained licenses for a number of patent applications covering technology developed by others, that we believe will be useful in producing new products, and which we believe may be of commercial interest to other companies that may be willing to sublicense the technology for fees or royalty payments. In the future, we may also file new patent applications seeking patent protection for new technology or products that we develop ourselves or jointly with others. However, there is no assurance that any of our licensed patent applications, or any patent applications that we have filed or that we may file in the future covering our own technology, either in the United States or abroad, will result in the issuance of patents.

In Europe, the European Patent Convention prohibits the granting of European patents for inventions that concern “uses of human embryos for industrial or commercial purposes.” The European Patent Office is presently interpreting this prohibition broadly, and is applying it to reject patent claims that pertain to human embryonic stem cells. However, this broad interpretation is being challenged through the European Patent Office appeals system. As a result, we do not yet know whether or to what extent we will be able to obtain patent protection for our human embryonic stem cell technologies in Europe.

The recent Supreme Court decision in *Mayo Collaborative Services v. Prometheus Laboratories, Inc.*, will need to be considered in determining whether certain diagnostic methods can be patented, since the Court denied patent protection for the use of a mathematical correlation of the presence of a well-known naturally occurring metabolite as a means of determining proper drug dosage. Our subsidiary OncoCyte Corporation is developing PanC-Dx™ as a cancer diagnostic test, based on the presence of certain genetic markers for a variety of cancers. Because PanC-Dx™ combines an innovative methodology with newly discovered compositions of matter, we are hopeful that this Supreme Court decision will not preclude the availability of patent protection for OncoCyte’s new product. However, like other developers of diagnostic products, we are evaluating this new Supreme Court decision and new interim guidelines implemented by the United States Patent and Trademark Office for the patenting of products that test for biological substances.

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The process of applying for and obtaining patents can be expensive and slow

The preparation and filing of patent applications, and the maintenance of patents that are issued, may require substantial time and money.

A patent interference proceeding may be instituted with the United States Patent and Trademark Office (“PTO”) for patents or applications filed before March 16, 2013 when more than one person files a patent application covering the same technology, or if someone wishes to challenge the validity of an issued patent. At the completion of the interference proceeding, the PTO may determine which competing applicant is entitled to the patent, or whether an issued patent is valid. Patent interference proceedings are complex, highly contested legal proceedings, and the PTO’s decision is subject to appeal. This means that if an interference proceeding arises with respect to any of our patent applications, we may experience significant expenses and delay in obtaining a patent, and if the outcome of the proceeding is unfavorable to us, the patent could be issued to a competitor rather than to us.

After March 16, 2013, a derivation proceeding may be instituted by the PTO or an inventor alleging that a patent or application was derived from the work of another inventor.

Post Grant Review under the new America Invents Act will make available after March 16, 2013 opposition-like proceedings in the United States. As with the PTO interference proceedings, Post Grant Review proceedings will be very expensive to contest and can result in significant delays in obtaining patent protection or can result in a denial of a patent application.

Oppositions to the issuance of patents may be filed under European patent law and the patent laws of certain other countries. As with the PTO interference proceedings, these foreign proceedings can be very expensive to contest and can result in significant delays in obtaining a patent or can result in a denial of a patent application.

Our patents may not protect our products from competition

We or our subsidiaries have patents in the United States, Canada, the European Union countries, Australia, Israel, Russia, South Africa, South Korea, Japan, Hong Kong, and Singapore, and have filed patent applications in other foreign countries for our plasma volume expander, stem cell products, HyStem[®] and other hydrogels, certain genes related to the development of cancer, and other technologies.

We might not be able to obtain any additional patents, and any patents that we do obtain might not be comprehensive enough to provide us with meaningful patent protection.

There will always be a risk that our competitors might be able to successfully challenge the validity or enforceability of any patent issued to us.

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In addition to interference proceedings, the PTO can re-examine issued patents at the request of a third party seeking to have the patent invalidated. This means that patents owned or licensed by us may be subject to re-examination and may be lost if the outcome of the re-examination is unfavorable to us. Our patents may be subject to inter partes review (replacing the reexamination proceeding), a proceeding in which a third party can challenge the validity of one of our patents.

We may be subject to patent infringement claims that could be costly to defend, which could limit our ability to use disputed technologies, and which could prevent us from pursuing research and development or commercialization of some of our products, require us to pay licensing fees to have freedom to operate and/or result in monetary damages or other liability for us

The success of our business depends significantly on our ability to operate without infringing patents and other proprietary rights of others. If the technology that we use infringes a patent held by others, we could be sued for monetary damages by the patent holder or its licensee, or we could be prevented from continuing research, development, and commercialization of products that rely on that technology, unless we are able to obtain a license to use the patent. The cost and availability of a license to a patent cannot be predicted, and the likelihood of obtaining a license at an acceptable cost would be lower if the patent holder or any of its licensees is using the patent to develop or market a product with which our product would compete. If we could not obtain a necessary license, we would need to develop or obtain rights to alternative technologies, which could prove costly and could cause delays in product development, or we could be forced to discontinue the development or marketing of any products that were developed using the technology covered by the patent.

If we fail to meet our obligations under license agreements, we may lose our rights to key technologies on which our business depends

Our business depends on several critical technologies that are based in part on technology licensed from third parties. Those third-party license agreements impose obligations on us, including payment obligations and obligations to pursue development of commercial products under the licensed patents or technology. If a licensor believes that we have failed to meet our obligations under a license agreement, the licensor could seek to limit or terminate our license rights, which could lead to costly and time-consuming litigation and, potentially, a loss of the licensed rights. During the period of any such litigation, our ability to carry out the development and commercialization of potential products, and our ability to raise any capital that we might then need, could be significantly and negatively affected. If our license rights were restricted or ultimately lost, we would not be able to continue to use the licensed technology in our business.

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The price and sale of our products may be limited by health insurance coverage and government regulation

Success in selling our pharmaceutical products may depend in part on the extent to which health insurance companies, HMOs, and government health administration authorities such as Medicare and Medicaid will pay for the cost of the products and related treatment. Presently, most health insurance plans and HMOs will pay for Hextend® when it is used in a surgical procedure that is covered by the plan. However, until we actually introduce a new product into the medical marketplace, we will not know with certainty whether adequate health insurance, HMO, and government coverage will be available to permit the product to be sold at a price high enough for us to generate a profit. In some foreign countries, pricing or profitability of health care products is subject to government control, which may result in low prices for our products. In the United States, there have been a number of federal and state proposals to implement similar government controls, and new proposals are likely to be made in the future.

Risks Related to our Dependence on Third Parties

We may become dependent on possible future collaborations to develop and commercialize many of our product candidates and to provide the regulatory compliance, sales, marketing and distribution capabilities required for the success of our business.

We may enter into various kinds of collaborative research and development and product marketing agreements to develop and commercialize our products. The expected future milestone payments and cost reimbursements from collaboration agreements could provide an important source of financing for our research and development programs, thereby facilitating the application of our technology to the development and commercialization of our products, but there are risks associated with entering into collaboration arrangements.

There is a risk that we could become dependent upon one or more collaborative arrangements for product development or as a source of revenues from the sale of any products that may be developed by us alone or through one of the collaborative arrangements. A collaborative arrangement upon which we might depend might be terminated by our collaboration partner or they might determine not to actively pursue the development or commercialization of our products. A collaboration partner also may not be precluded from independently pursuing competing products and drug delivery approaches or technologies.

There is a risk that a collaboration partner might fail to perform its obligations under the collaborative arrangements or may be slow in performing its obligations. In addition, a collaboration partner may experience financial difficulties at any time that could prevent it from having available funds to contribute to the collaboration. If a collaboration partner fails to conduct its product development, commercialization, regulatory compliance, sales and marketing or distribution activities successfully and in a timely manner, or if it terminates or materially modifies its agreements with us, the development and commercialization of one or more product candidates could be delayed, curtailed or terminated because we may not have sufficient financial resources or capabilities to continue such development and commercialization on our own.

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We have very limited experience in marketing, selling or distributing our products, and we may need to rely on marketing partners or contract sales companies.

Even if we are able to develop our products and obtain necessary regulatory approvals, we have very limited experience or capabilities in marketing, selling or distributing our products. We rely entirely on Hospira and CJ for the sale of Hextend®.

We currently have only limited sales, marketing and distribution resources for selling our stem cell research products, and no marketing or distribution resources for selling any of the medical devices or pharmaceutical products that we are developing. Accordingly, we will be dependent on our ability to build our own marketing and distribution capability for our new products, which would require the investment of significant financial and management resources, or we will need to find collaborative marketing partners or independent sales representatives, or wholesale distributors for the commercial sale of our products.

If we market products through arrangements with third parties, we may pay sales commissions to sales representatives or we may sell or consign products to distributors at wholesale prices. As a result, our gross profit from product sales may be lower than it would be if we were to sell our products directly to end users at retail prices through our own sales force.

There can be no assurance we will be able to negotiate distribution or sales agreements with third parties on favorable terms to justify our investment in our products or achieve sufficient revenues to support our operations.

We do not have the ability to independently conduct clinical trials required to obtain regulatory approvals for our drug candidates.

We will need to rely on third parties, such as contract research organizations, data management companies, contract clinical research associates, medical institutions, clinical investigators and contract laboratories to conduct any clinical trials that we may undertake for our products. We may also rely on third parties to assist with our preclinical development of drug candidates. If we outsource clinical trial we may be unable to directly control the timing, conduct and expense of our clinical trials. If we enlist third parties to conduct clinical trials and they fail to successfully carry out their contractual duties or regulatory obligations or fail to meet expected deadlines, if the third parties need to be replaced or if the quality or accuracy of the data they obtain is compromised due to the failure to adhere to our clinical protocols or regulatory requirements or for other reasons, our preclinical development activities or clinical trials may be extended, delayed, suspended or terminated, and we may not be able to obtain regulatory approval for or successfully commercialize our drug candidates.

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Risks Related to the Asset Contribution Agreement

Asterias will assume Geron's appeal of two adverse patent rulings, and if the appeal is not successful, Asterias may not realize value from the Geron patent applications at issue in the appeal and might be precluded from developing therapies to treat certain diseases, such as diabetes.

At the closing of the asset contribution transaction under the Asset Contribution Agreement, Asterias will be substituted for Geron as a party in interest in an appeal filed by Geron in the United States District Court for the Northern District of California, appealing two adverse rulings in favor of ViaCyte, Inc. (formerly Novocell Inc.) by the United States Patent and Trademark Office's Board of Patent Appeals and Interferences. These rulings related to interference proceedings involving patent filings relating to definitive endoderm cells. Geron had requested that the Board of Patent Appeals and Interferences declare this interference after ViaCyte was granted patent claims that conflicted with subject matter Geron filed in a patent application having an earlier priority date. Those Geron patent applications are among the patent assets that Geron will contribute to Asterias. Asterias will assume all liabilities arising with respect to the ViaCyte Appeal, other than expenses incurred by Geron relating to the ViaCyte Appeal prior to the closing of the asset contribution transaction. Appeals of this nature may involve costly and time-consuming legal proceedings and if Asterias is not successful in the appeal, these rulings may prevent or limit development of Asterias product candidates in certain fields such as diabetes treatment and Asterias may be unable to realize value from the patent applications at issue in the appeal.

We could be liable to indemnify Geron for certain liabilities and must also bear the cost of an insurance policy for the benefit of Geron.

We and Asterias have agreed to indemnify Geron from and against certain liabilities relating to (a) the Series A Distribution, (b) Asterias's distribution of the Contribution Warrants to the holders of Asterias Series A Shares and (c) any distribution of securities by Asterias to the holders of the Asterias Series A Shares within one year following the closing under the Asset Contribution Agreement. That indemnification obligation will last through the fifth anniversary of the earliest to occur of the date on which all of the Contribution Warrants have either expired, or been exercised, cancelled or sold. We have also agreed to use our reasonable best efforts to obtain at our cost and expense prior to the closing under the Asset Contribution Agreement a policy of insurance to provide \$10,000,000 of coverage for those indemnification obligations for a period of five years. The cost of obtaining and maintaining the insurance policy in place for five years could be significant, and the insurance would be for the benefit of Geron and its affiliates.

We and Asterias have also agreed to indemnify Geron, from and against certain expenses, losses, and liabilities arising from, among other things, breaches of our or Asterias's representations, warranties and covenants under the Asset Contribution Agreement. The maximum damages that may be recovered by either party for a loss under this indemnification related to representations, warranties and pre-closing covenants, with certain exceptions, is limited to \$2 million.

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Completing the Asset Contribution may divert our management's attention away from ongoing operations and could adversely affect ongoing operations and business relationships.

Completing the Asset Contribution will require a significant amount of time and attention from our management. Moreover, after the Asset Contribution, our management will be required to provide more management attention to Asterias. The diversion of our management's attention away from our other operations could adversely affect our operations and business relationships that do not relate to Asterias.

Risks Pertaining to Our Common Shares and Warrants

Ownership of our common shares and Contribution Warrants will entail certain risks associated with the volatility of prices for our common shares and Contribution Warrants and the fact that we do not pay dividends on our common shares.

You may experience immediate and substantial dilution.

The offering price per share in this offering may exceed the net tangible book value per share of our common shares outstanding prior to this offering. Assuming that an aggregate of 8,902,077 common shares (minimum) or 11,463,464 (maximum) included in this prospectus and the 8,000,000 Contribution Warrants at an exercise price of \$5.00 per share are sold at a price of \$3.96 per share, the last reported sale price of our common shares on the NYSE MKT on June 28, 2013 for aggregate gross proceeds of \$66,932,225 (minimum) or \$77,075,317 (maximum), you will experience immediate dilution of \$2.73 per share (minimum) or \$2.83 (maximum), representing the difference between our as adjusted net tangible book value per share as of June 30, 2013 after giving effect to this offering and the assumed offering price. The exercise of outstanding stock options and certain warrants not included in this prospectus may result in further dilution of your investment. See the section entitled "DILUTION" below for a more detailed illustration of the dilution you would incur if you participate in this offering.

Because we are engaged in the development of pharmaceutical and stem cell research products, the price of our common shares may rise and fall rapidly

The market price of our common shares, like that of the shares of many biotechnology companies, has been highly volatile.

The price of our common shares may rise rapidly in response to certain events, such as the commencement of clinical trials of an experimental new drug, even though the outcome of those trials and the likelihood of ultimate FDA approval remain uncertain.

Similarly, prices of our common shares may fall rapidly in response to certain events such as unfavorable results of clinical trials or a delay or failure to obtain FDA approval.

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The failure of our earnings to meet analysts' expectations could result in a significant rapid decline in the market price of our common shares.

Changes in the price of our common shares will affect the price at which our warrants may trade.

There has previously been no public market for the Contribution Warrants and there is no assurance that a public market for the Contribution Warrants will develop

Although we intend to apply to list the Contribution Warrants on the NYSE MKT where our common shares are listed there is no assurance that the Contribution Warrants will be approved for listing. Even if the Contribution Warrants are listed for trading on the NYSE MKT, there is no way of predicting whether an active market for trading in the Contribution Warrants will develop. The absence of an active public market would make it difficult for Contribution Warrant holders to sell their Contribution Warrants and would adversely affect the value of the Contribution Warrants.

Current economic and stock market conditions may adversely affect the price of our common shares and Contribution Warrants

The stock market has been experiencing extreme price and volume fluctuations which have affected the market price of the equity securities without regard to the operating performance of the issuing companies. Broad market fluctuations, as well as general economic and political conditions, may adversely affect the market price of the common shares and Contribution Warrants.

Because we do not pay dividends, our common shares may not be a suitable investment for anyone who needs to earn dividend income

We do not pay cash dividends on our common shares. For the foreseeable future, we anticipate that any earnings generated in our business will be used to finance the growth of our business and will not be paid out as dividends to our shareholders. This means that our common shares may not be a suitable investment for anyone who needs to earn income from their investments.

Securities analysts may not initiate coverage or continue to cover our common shares and this may have a negative impact on the market price of our common shares and Contribution Warrants

The trading market for our common shares and Contribution Warrants will depend, in part, on the research and reports that securities analysts publish about our business and our common shares. We do not have any control over these analysts. There is no guarantee that securities analysts will cover our common shares. If securities analysts do not cover our common shares, the lack of research coverage may adversely affect the market price of those shares and our warrants. If securities analysts do cover our common shares, they could issue reports or recommendations that are unfavorable to the price of our common shares and Contribution Warrants, and they could downgrade a previously favorable report or recommendation, and in either case our share and warrant prices could decline as a result of the report. If one or more of these analysts does not initiate coverage, ceases to cover our common shares or fails to publish regular reports on our business, we could lose visibility in the financial markets, which could cause our share and warrant prices or trading volume to decline.

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You may experience dilution of your ownership interests because of the future issuance of additional common shares and preferred shares by us and our subsidiaries

In the future, we may issue our authorized but previously unissued equity securities, resulting in the dilution of the ownership interests of our present shareholders. We are currently authorized to issue an aggregate of 127,000,000 shares of capital stock consisting of 125,000,000 common shares and 2,000,000 “blank check” preferred shares. As of August 7, 2013, there were 57,938,220 common shares outstanding, 4,394,634 common shares reserved for issuance upon the exercise of outstanding options under our employee stock option plans; and 1,751,615 shares reserved for issuance upon the exercise of common share purchase warrants. No preferred shares are presently outstanding.

We plan to issue a minimum of 8,902,077 common shares and a maximum of 11,463,464 common shares to Asterias under the Asset Contribution Agreement. We also plan to issue 8,000,000 Contribution Warrants to Asterias under the Asset Contribution Agreement.

The operation of some of our subsidiaries has been financed in part through the sale of capital stock in those subsidiaries to private investors. Sales of additional subsidiary shares could reduce our ownership interest in the subsidiaries, and correspondingly dilute our shareholder’s ownership interests in our consolidated enterprise. Our subsidiaries also have their own stock option plans and the exercise of subsidiary stock options or the sale of restricted stock under those plans would also reduce our ownership interest in the subsidiaries, with a resulting dilutive effect on the ownership interest of our shareholders in our consolidated enterprise.

We and our subsidiaries may issue additional common shares or other securities that are convertible into or exercisable for common shares in order to raise additional capital, or in connection with hiring or retaining employees or consultants, or in connection with future acquisitions of licenses to technology or rights to acquire products, or in connection with future business acquisitions, or for other business purposes. The future issuance of any such additional common shares or other securities may create downward pressure on the trading price of our common shares and Contribution Warrants.

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We may also issue preferred shares having rights, preferences, and privileges senior to the rights of our common shares with respect to dividends, rights to share in distributions of our assets if we liquidate our company, or voting rights. Any preferred shares may also be convertible into common shares on terms that would be dilutive to holders of common shares. Our subsidiaries may also issue their own preferred shares with a similar dilutive impact on our ownership of the subsidiaries.

The market price of our common shares and Contribution Warrants could be impacted by the sale of the common shares included in this prospectus, and the issuance or exercise of the Contribution Warrants

Under the Asset Contribution Agreement, we have agreed to issue to Asterias a minimum of 8,902,077 common shares, and a maximum of 11,463,464 common shares, which are included in this prospectus. Asterias may sell the common shares that they receive from us. Those sales may take place from time to time on the NYSE MKT and may create downward pressure on the trading price of our common shares and Contribution Warrants.

We have also agreed to issue 8,000,000 Contribution Warrants to Asterias under the Asset Contribution Agreement. Asterias plans to distribute the Contribution Warrants to the future holders of Asterias Series A Shares.

The Contribution Warrants will be exercisable for a period of five years at an exercise price of \$5.00 per share, subject to adjustment for certain stock splits, reverse stock splits, stock dividends, recapitalizations and other transactions. The Investor Warrants will be exercisable for a period of three years at an exercise price of \$5.00 per share, subject to adjustment for certain stock splits, reverse stock splits, stock dividends, recapitalizations and other transactions. During the period that the Contribution Warrants and the Investor Warrants are outstanding, the actual or potential exercise of those warrants and sale of the underlying common shares may create downward pressure on the trading price of our common shares and Contribution Warrants.

The market price of our common shares and Contribution Warrants could be impacted by prices at which we sell shares in our subsidiaries

The operation of some our subsidiaries has been financed in part through the sale of capital stock in those subsidiaries, and our subsidiaries may sell shares of their capital stock in the future for financing purposes. The prices at which our subsidiaries may sell shares of their capital stock could impact the value of our company as a whole and could impact the price at which our common shares and Contribution Warrants trade in the market. A sale of capital stock of one of our subsidiaries at a price that the market perceives as low could adversely impact the market price of our common shares and Contribution Warrants. Even if our subsidiaries sell their capital stock at prices that reflect arm's length negotiation with investors, there is no assurance that those prices will reflect a true fair market value or that the ascribed value of the subsidiaries based on those share prices will be fully reflected in the market value of our common shares and Contribution Warrants.

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The Contribution Warrants cannot be exercised unless a registration statement is in effect under federal and state securities laws

A registration statement under the Securities Act must be in effect in order for holders of Contribution Warrants to exercise those warrants. This means that we will have to periodically update our registration statement and prospectus by filing post-effective amendments and by filing our annual report on Form 10-K, our quarterly reports on Form 10-Q, and current reports on Form 8-K as required under the Exchange Act. We intend to use our best efforts to keep our registration statement effective. However, if we are unable to do so for any reason, Contribution Warrant holders would not be able to exercise their Contribution Warrants, even if the market price of our common shares was then greater than the exercise price. Unless our common shares remain listed on the NYSE MKT or another national securities exchange, most states will also require us to obtain a permit, issued through an application for registration or qualification, and to maintain that permit in effect in order for Contribution Warrant holders in the state to exercise their Contribution Warrants.

USE OF PROCEEDS

We will receive the exercise price of the Contribution Warrants if and when those warrants are exercised. If all of the Contribution Warrants are exercised, we will receive \$40,000,000. We intend to use the net proceeds we may receive from exercise of the Contribution Warrants for general corporate purposes, including, without limitation, working capital, capital expenditures, research and development expenditures, regulatory affairs expenditures, and clinical trial expenditures. Our management will have broad discretion in the application of the net proceeds from the exercise of the Contribution Warrants.

Pending the application of the net proceeds from the exercise of the Contribution Warrants, we expect to invest the proceeds in investment grade, interest bearing securities.

We will contribute at least 8,902,077 common shares to Asterias under the Asset Contribution Agreement. We may contribute up to an additional 2,373,887 common shares to Asterias in lieu of additional cash under the Asset Contribution Agreement in the unlikely event that Romulus fails to make a \$5,000,000 cash investment in Asterias or if we decide to contribute more shares and less cash with respect to our Cash Contribution. Asterias may sell from time to time the common shares it receives from us to finance its operations. The net proceeds from the sale of those common shares by Asterias will be used in its operations for general corporate purposes, including, without limitation, working capital, capital expenditures, research and development expenditures, and to finance clinical trials of any products that it might develop. The amount of net proceeds that may become available to Asterias from time to time cannot presently be determined and will depend upon the prices at which Asterias is able to sell its BioTime common shares. Until used, the net proceeds received by Asterias from the sale of its BioTime common shares will be invested in certificates of deposit, United States government securities, or other high quality, short-term, interest-bearing investments.

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DILUTION

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

If you purchase our common shares in this offering, your interest will be diluted to the extent of the difference between the public offering price per share and the net tangible book value per share of our common shares after this offering. We calculate net tangible book value per share by dividing our net tangible assets (tangible assets less total liabilities) by the number of our common shares issued and outstanding as of June 30, 2013.

Our net tangible book value at June 30, 2013 was \$15,315,654 or \$0.28 per share. After giving effect to the issuance of a minimum of 8,902,077 of our common shares (the "Minimum Share Contribution") to Asterias under the Asset Contribution Agreement at an assumed offering price of \$3.37 per share, the aggregate volume weighted-average per share closing price of shares of BioTime Common Stock as listed on the NYSE MKT for the twenty (20) consecutive trading days immediately preceding the date of the Asset Contribution Agreement, and a maximum of 11,463,464 of our common shares (the "Maximum Share Contribution") of which 11,275,964 may be issued to Asterias at an assumed offering price of \$3.37 per share and 187,500 that may be issuable to Geron at an assumed price of \$4.00 per share under the Asset Contribution Agreement, and after giving effect to the exercise of 8,000,000 Contribution Warrants at an exercise price of \$5.00 per share our pro forma as adjusted net tangible book value as of June 30, 2013 would have been approximately \$82 million, or \$1.13 per common share if the Minimum Share Contribution occurs, or approximately \$92 million, or \$1.23 per common share if the Maximum Share Contribution occurs. This represents an immediate increase in the net tangible book value of \$0.85 per share if the Minimum Share Contribution occurs, or \$0.95 per share if the Maximum Share Contribution occurs, to our existing shareholders and an immediate dilution in net tangible book value of \$2.83 per share if the Minimum Share Contribution occurs, or \$2.73 if the Maximum Share Contribution occurs, to new investors.

The following tables illustrate per share dilution for Minimum Share Contribution and for Maximum Share Contribution:

Minimum Share Contribution and Contribution Warrants	
Assumed public offering price per share	\$3.96
Net tangible book value per share as of June 30, 2013	\$0.28
Increase in net tangible book value per share attributable to this offering (Minimum Share Contribution)	\$0.85
Pro forma as adjusted net tangible book value per share as of June 30, 2013, after giving effect to this offering (Minimum Share Contribution)	\$1.13
Dilution per share to new investors purchasing shares in this offering (Minimum Share Contribution)	\$2.83

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Maximum Share Contribution and Contribution Warrants	
Assumed public offering price per share	\$3.96
Net tangible book value per share as of June 30, 2013	\$0.28
Increase in net tangible book value per share attributable to this offering (Maximum Share Contribution)	\$0.95
Pro forma as adjusted net tangible book value per share as of June 30, 2013, after giving effect to this offering (Maximum Share Contribution)	\$1.23
Dilution per share to new investors purchasing shares in this offering (Maximum Share Contribution)	\$2.73

The tables above assume for illustrative purposes that all 16,902,077 common shares (8,902,077 shares for Minimum Share Contribution and 8,000,000 Contribution Warrants) and 19,463,464 common shares (11,463,464 shares for Maximum Share Contribution plus the 8,000,000 Contribution Warrants) are sold at a price of \$3.96 per share, the last reported sale price of our common shares on the NYSE MKT on June 28, 2013, for aggregate gross proceeds of \$66,932,225 and \$77,075,317, respectively rather than at the prices at which we will sell common shares at the price used to determine the value of the common shares we will contribute to Asterias under the Asset Contribution Agreement or the exercise price of the Contribution Warrants. The shares will be sold from time to time at various prices.

The above discussion and table are based on 55,616,934 common shares issued and outstanding as of June 30, 2013, and excludes the following:

- warrants to purchase 1,751,615 common shares at a weighted average exercise price of \$6.59 per share outstanding at June 30, 2013.

- options under our 2002 Stock Option Plan and subject to shareholder approval under our 2012 Equity Incentive Plan to purchase 4,394,634 common shares, with a weighted average exercise price of \$2.67 per share, outstanding on June 30, 2013.

To the extent that outstanding options or warrants are exercised, or other shares are issued, investors purchasing shares in this offering could experience further dilution. 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 shareholders.

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MARKET FOR OUR COMMON EQUITY

Our common shares are traded on the NYSE MKT under the ticker symbol BTX. The following table sets forth the range of high and low closing prices for our common shares for the fiscal years ended December 31, 2011 and 2012 and for the three months ended March 31, and June 30, 2013 as reported by the NYSE MKT:

Quarter Ended	High	Low
March 31, 2011	\$9.50	\$6.53
June 30, 2011	\$7.73	\$4.15
September 30, 2011	\$5.70	\$4.34
December 31, 2011	\$6.02	\$3.74
March 31, 2012	\$6.12	\$4.41
June 30, 2012	\$4.79	\$3.47
September 30, 2012	\$4.98	\$3.81
December 31, 2012	\$4.40	\$2.91
March 31, 2013	\$4.99	\$3.20
June 30, 2013	\$4.82	\$3.39

As of June 30, 2013, there were 15,463 holders of the common shares based on the share position listing.

There has previously been no public market for the Contribution Warrants and there is no assurance that a public market for the Contribution Warrants will develop. Although we intend to apply to list the Contribution Warrants on the NYSE MKT where our common shares are listed there is no assurance that the Contribution Warrants will be approved for listing. Even if the Contribution Warrants are listed for trading on the NYSE MKT, there is no way of predicting whether an active market for trading in the Contribution Warrants will develop.

Dividend Policy

We have never paid cash dividends on our capital stock and do not anticipate paying cash dividends in the foreseeable future, but intend to retain our capital resources for reinvestment in our business. Any future determination to pay cash dividends will be at the discretion of our Board of Directors and will be dependent upon our financial condition, results of operations, capital requirements and other factors as the Board of Directors deems relevant.

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THE ASSET CONTRIBUTION AGREEMENT

Explanatory Note Regarding the Asset Contribution Agreement

The following summary of the Asset Contribution Agreement may not contain all of the information that is important to you and is qualified in its entirety by reference to the full text of the Asset Contribution Agreement which has been previously filed with the SEC as Exhibit 2.1 to our Form 8-K dated January 8, 2013 and is incorporated herein by reference. Please read the full text of the Asset Contribution Agreement. The representations, warranties and covenants contained in the Asset Contribution Agreement were made only for purposes of that agreement and as of specific dates, were made solely for the benefit of the parties to the Asset Contribution Agreement and may be intended not as statements of fact, but rather as a way of allocating the risk among the parties if those statements prove to be inaccurate. In addition, such representations, warranties and covenants may have been qualified by certain confidential disclosure schedules prepared by the parties to the Asset Contribution Agreement, and not reflected in the text of the Asset Contribution Agreement, and may apply standards of materiality in a way that is different from what may be viewed as material by shareholders of, or other investors in, BioTime. Schedules to the Asset Contribution Agreement have been omitted in our Form 8-K filing. We agree to furnish supplementally a copy of any omitted schedule to the SEC upon request. Investors are not third-party beneficiaries under the Asset Contribution Agreement and should not rely on the representations, warranties and covenants or any descriptions thereof as characterizations of the actual state of facts or condition of BioTime, Asterias or Geron, or any of their respective subsidiaries or affiliates.

On January 4, 2013, we entered into the Asset Contribution Agreement with Asterias and Geron pursuant to which Asterias will acquire the stem cell assets of Geron in exchange for 6,537,779 Asterias Series A Shares and the assumption of the Assumed Geron Liabilities, and will acquire cash and the Contribution Shares and Contribution Warrants from us in exchange for 21,773,340 Asterias Series B Shares and warrants to purchase 3,150,000 additional Asterias Series B Shares.

In the Asset Contribution, Asterias will receive the following assets from Geron and BioTime:

From Geron:

certain patents and patent applications and all related active prosecution cases, trade secrets, know-how and certain other intellectual property rights, and all of Geron's goodwill with respect to the technology of Geron directly related to the research, development and commercialization of certain products and know-how related to hES cells;

certain biological materials and reagents (including master and working cell banks, original and seed banks, and research, pilot and GMP grade lots and finished product);

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- certain laboratory equipment;
- certain contracts;
- certain books, records, lab notebooks, clinical trial documentation, files and data;
- certain regulatory filings, including the investigational new drug applications filed with the United States Food and Drug Administration for the Clinical Trials; and
- certain abandoned or inactive patents and abandoned or inactive patent applications.

We refer to the assets to be contributed to Asterias by Geron as the “Contributed Geron Assets.” In addition, Asterias will receive from Geron the Telomerase Sublicense entitling Asterias to use the sublicensed patents in the development of certain immunological treatments for cancer. Under the Telomerase Sublicense, Asterias will pay Geron an up-front license fee, a small annual license maintenance fee, and a small royalty on sales of any products that Asterias may develop and commercialize using the sublicensed patents.

From BioTime:

- the 8,902,077 Contribution Shares, which for purposes of the Asset Contribution Agreement were valued at \$30,000,000 or \$3.37 per share based upon the Average Price;
- the Contribution Warrants to subscribe for and purchase 8,000,000 additional BioTime common shares;
- \$5,000,000 in cash as the BioTime Cash Contribution;
- 10% of the shares of common stock of our subsidiary OrthoCyte Corporation issued and outstanding as of January 4, 2013;
- 6% of the ordinary shares of our subsidiary Cell Cure Neurosciences, Ltd. issued and outstanding as of January 4, 2013; and
- the BioTime Stem Cell Assets.

Cash Contribution by Romulus:

Romulus has entered into a Stock and Warrant Purchase Agreement with Asterias pursuant to which Romulus has agreed to contribute \$5,000,000 in cash to Asterias for 2,136,000 Asterias Series B Shares and warrants to purchase 350,000 additional Asterias Series B Shares. That investment will be made in conjunction with the closing of the Asset Contribution. If for any reason Romulus fails to make all or any portion of that \$5,000,000 contribution, we will contribute to Asterias additional cash, BioTime common shares, or a combination of cash and BioTime common shares in an amount equal in value to the cash not contributed by Romulus. Any BioTime common shares so contributed will be valued at the Average Price of \$3.37 per share, and we will receive the Asterias Series B Shares and Asterias warrants that Romulus would otherwise have received had it made the cash contribution to Asterias. Romulus could determine not to make its \$5,000,000 contribution to Asterias if the conditions to Romulus' obligations to purchase the Asterias Series B Shares and warrants under the Stock and Warrant Purchase Agreement are not met, or if Romulus defaults in performing its obligations under the Stock and Warrant Purchase Agreement. The sale of the Asterias Series B Shares and warrants to Romulus under the Stock and Warrant Purchase Agreement will occur concurrently with the consummation of the Asset Contribution transaction, and the consummation of the Asset Contribution is a condition of Romulus's obligation to purchase the Asterias Series B Shares and warrants. Other

conditions to Romulus' obligation to purchase the Asterias Series B Shares and warrants include:

- Asterias' representations and warranties in the Stock and Warrant Purchase Agreement being true and correct in all material respects;
- Asterias having complied with all of its covenants under the Stock and Warrant Purchase Agreement;
- no Material Adverse Effect having occurred;
 - no litigation or other proceedings enjoining, delaying, prohibiting or restricting, and no judgment, order or writ of any governmental authority prohibiting or restricting, the consummation of either or both of the sale of the Asterias Series B Shares and warrants under the Stock and Warrant Purchase Agreement and the Asset Contribution transaction; and
- the Asset Contribution Agreement not having been amended, and neither we nor Asterias having waived material conditions, without Romulus' approval.

For purposes of the Stock and Warrant Purchase Agreement, "Material Adverse Effect" means any change that does, or would be reasonably expected to, have a material adverse effect on Asterias' business, operations, financial condition, or assets, provided, however, that none of the following shall be deemed either alone or in combination to constitute, and none of the following shall be taken into account in determining whether there has been or would be, a Material Adverse Effect: (a) any adverse effect resulting from or arising out of the announcement, pendency, or consummation of the transactions contemplated by the Stock and Warrant Purchase Agreement or the Asset Contribution Agreement; (b) any adverse effect resulting from or arising out of general economic conditions; (c) any adverse effect resulting from or arising out of general conditions in the industries in which Asterias or Geron operate; (d) any adverse effect resulting from or arising out of any natural disaster or any acts of terrorism, sabotage, military action or war or any escalation or worsening thereof; and (e) any adverse effect resulting from or arising out of any changes in any law, statute, rule or regulation, or the judicial or administrative interpretation thereof, or any change in generally accepted accounting principles.

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Ownership of Asterias following the Asset Contribution

At the closing of the Asset Contribution, Asterias will issue to Geron, BioTime and Romulus the following Asterias securities:

· To Geron, 6,537,779 Asterias Series A Shares;

· To BioTime, 21,773,340 Asterias Series B Shares, and warrants to purchase 3,150,000 Asterias Series B Shares, exercisable for a period of three years at an exercise price of \$5.00 per share; and

· To Romulus, 2,136,000 Asterias Series B Shares, and warrants to purchase 350,000 additional Asterias Series B Shares exercisable for a period of three years after the date of issue at an exercise price of \$5.00 per share.

Immediately after the completion of the Asset Contribution, and before the Series A Distribution, we will hold approximately 71.6% of the Asterias common stock as a whole, Geron will hold 100% of the Asterias Series A Shares and approximately 21.4% of the Asterias common stock as a whole, and Romulus will hold approximately 7% of the Asterias common stock as a whole. The Asterias warrants that we and Romulus will receive will enable us and Romulus to increase our collective ownership in Asterias by approximately 2.2%, which would reduce Geron's ownership in us to approximately 19.2%.

The Asterias Series A Shares and Asterias Series B Shares are identical in substantially all respects and will vote together as a single class, without distinction as to series on all matters except as may otherwise be required by Delaware law. The two significant differences between the Asterias Series A Shares and Asterias Series B shares are:

· Asterias may declare and pay dividends or other distributions on Asterias Series A Shares without paying a corresponding dividend or distribution on the Asterias Series B Shares. This difference in dividend and distribution rights will allow Asterias make the Contribution Warrants Distribution to the holders of the Asterias Series A Shares.

· The Asterias Series B Shares may be converted into Asterias Series A Shares, at Asterias' election, at any time by resolution of Asterias' Board of Directors after Asterias completes the BioTime Warrants Distribution. Each Asterias Series B Share will be convertible into one Asterias Series A Share.

Assumed Liabilities

Asterias will assume all obligations and liabilities of Geron and its affiliates relating to:

· the Contributed Geron Assets and attributable to periods, events or circumstances after the closing under the Asset Contribution Agreement;

· obligations of Geron and its affiliates to be performed following the closing under the Asset Contribution Agreement under contracts included in the Contributed Geron Assets;

· the ViaCyte Appeal and the PTO interferences upon which the appeal is based, as well as certain oppositions filed by Geron against certain ViaCyte patent filings in Australia and in the European Patent Office; provided, that Asterias will not assume expenses incurred by Geron relating to the appeal or the other ViaCyte patent interference and opposition proceedings prior to the closing of the Asset Contribution; and

· the Clinical Trials.

Royalty Agreement

At the closing of the Asset Contribution, Asterias will enter into a Royalty Agreement with Geron pursuant to which Asterias will agree to pay Geron a 4% royalty on net sales (as defined in the Royalty Agreement), by Asterias or any affiliate or sales agent of Asterias, of any products that are developed and commercialized in reliance upon the patents contributed by Geron to Asterias. In the case of sales of such products by a person other than Asterias or an affiliate or sales agent of Asterias, Asterias will be required to pay Geron 50% of all royalties and cash payments received by Asterias or its affiliate in respect of a product sale.

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Contribution Expenses; Taxes

Asterias will bear and pay, and reimburse Geron and its affiliates for, any reasonable fees and expenses relating to and that may be payable in connection with the assignment of the Geron patents and taxes that may become payable in connection with the contribution of assets by Geron to Asterias.

Representations and Warranties

Representations and Warranties of Asterias and Us

The Asset Contribution Agreement contains a number of representations and warranties made by us and Asterias, on the one hand, and Geron, on the other hand, that are subject, in some cases, to specified exceptions and qualifications. The representations and warranties relate to, among other things:

- corporate existence and good standing;
- governmental authorizations necessary to complete the Asset Contribution Transaction;
- title to contributed assets;
- due authorization, execution, delivery and validity of the Asset Contribution Agreement; and
- absence of any conflict with organizational documents, laws or agreements.

The Asset Contribution Agreement contains a number of representations and warranties made by us and Asterias that are subject, in some cases, to specified exceptions and qualifications. These representations and warranties relate to, among other things:

- the due organization, existence and good standing of BioTime, Asterias, OrthoCyte Corporation, and Cell Cure Neurosciences, Ltd.;
- our corporate power and authority to execute and deliver, to perform our obligations under and to consummate the Asset Contribution, and the enforceability of the Asset Contribution Agreement against us, and Asterias's corporate power and authority to execute and deliver, to perform its obligations under and to consummate the transactions contemplated by the Asset Contribution Agreement, and the enforceability of the Asset Contribution Agreement against Asterias;

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· absence of any violation of our or Asterias’s organizational documents, laws, regulations, or agreements as a result of the consummation or performance by us or Asterias of the transactions contemplated by the Asset Contribution Agreement;

· our and Asterias’s organizational documents;

· litigation and proceedings;

· orders of any governmental entity;

· our capital structure and the capital structure of Asterias, OrthoCyte and Cell Cure Neurosciences;

· our filings with the SEC and the accuracy of information in those filings, including our financial statements;

· our internal controls and procedures;

· the accuracy of the information and statements in this prospectus and registration statement of which this prospectus is a part (the “BioTime Registration Statement”), and in Asterias’s prospectus for the Asterias Series A Shares to be issued to Geron (the “Asterias Prospectus”), and the registration statement of which it is a part (the “Asterias Registration Statement”), and our proxy statement for a special meeting of our shareholders described below under “Conditions to Closing—Mutual Conditions” (the “Proxy Statement”);

· the compliance of the BioTime Registration Statement, and the Asterias Registration Statement, the related prospectuses and our Proxy Statement with applicable federal securities laws and regulations;

· title to the assets that we will contribute to Asterias;

· Asterias’s prior activities; and

· the absence of a certain changes that would, or would be reasonably expected to, have a “BioTime Material Adverse Effect”.

Certain of our and Asterias’s representations and warranties are qualified as to “materiality,” “BioTime Material Adverse Effect,” or the actual knowledge of certain of our or Asterias’s executives.

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For purposes of the Asset Contribution Agreement, a “BioTime Material Adverse Effect” means any change that does, or would be reasonably expected to, have a material adverse effect on: (a) the assets that we will contribute to Asterias, taken as a whole; or (b) the ability of BioTime and Asterias to timely consummate the transactions contemplated by the Asset Contribution Agreement or to perform any of BioTime’s or Asterias’s respective obligations under the Asset Contribution Agreement. However, none of the following will be taken into account in determining whether there has been or would be, a BioTime Material Adverse Effect with respect to the assets that we will contribute to Asterias: (a) any adverse effect resulting from or arising out of the announcement or pendency of the Asset Contribution Agreement or the transactions contemplated thereby; (b) any adverse effect resulting from or arising out of general economic conditions that does not disproportionately affect BioTime, taken as a whole relative to the other entities in the industries in which BioTime competes; (c) any adverse effect resulting from or arising out of general conditions in the industries in which BioTime operates that do not disproportionately affect BioTime, taken as a whole relative to the other entities in the industries in which BioTime competes; (d) any adverse effect resulting from or arising out of any natural disaster or any acts of terrorism, sabotage, military action or war or any escalation or worsening thereof; or (e) any adverse effect resulting from or arising out of any changes in any legal requirement or U.S. generally accepted accounting principles.

Representations and Warranties of Geron

The Asset Contribution Agreement contains a number of representations and warranties made by Geron that are subject, in some cases, to specified exceptions and qualifications. These representations and warranties relate to, among other things:

·Geron’s due organization, existence and good standing;

·Geron’s corporate power and authority to execute and deliver, to perform its obligations under and to consummate the transactions contemplated by the Asset Contribution Agreement, and the enforceability of the Asset Contribution Agreement against Geron;

·absence of any violation of Geron’s organizational documents, laws, regulations, or agreements as a result of the consummation or performance by Geron of the transactions contemplated by the Asset Contribution Agreement;

·Geron’s organizational documents;

·litigation and proceedings;

·orders of any governmental entity;

·title to the assets to be contributed by Geron to Asterias;

·the intellectual property to be contributed by Geron to Asterias;

·compliance with the Food and Drug Cosmetic Act and U.S. Food and Drug Administration policies;

·validity and enforceability of, breach or default under, or termination rights under, contracts to be contributed by Geron to Asterias;

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·environmental matters;

·taxes; and

the accuracy of the information and statements supplied by Geron for inclusion in the BioTime Registration Statement or the Asterias Registration Statement or in the prospectuses included in those registration statements, or in our Proxy Statement.

Certain of Geron’s representations and warranties are qualified as to “materiality,” “Geron Material Adverse Effect,” or the actual knowledge of specified executives employed by Geron. For purposes of the Asset Contribution Agreement, a “Geron Material Adverse Effect” means any change that does, or would be reasonably expected to, have a material adverse effect on: (a) the Contributed Geron Assets, taken as a whole; or (b) the ability of Geron to perform any of its obligations under the Asset Contribution Agreement. However, none of the following will be taken into account in determining whether there has been or would be, a Geron Material Adverse Effect with respect to the Contributed Geron Assets: (i) any adverse effect resulting from or arising out of the announcement or pendency of the Asset Contribution Agreement or the transactions contemplated thereby; (ii) any adverse effect resulting from or arising out of general economic conditions that does not disproportionately affect Geron, taken as a whole relative to the other entities in the industries in which Geron competes; (iii) any adverse effect resulting from or arising out of general conditions in the industries in which Geron operates that do not disproportionately affect Geron, taken as a whole relative to the other entities in the industries in which Geron competes; (iv) any adverse effect resulting from or arising out of any natural disaster or any acts of terrorism, sabotage, military action or war or any escalation or worsening thereof; (v) any adverse effect resulting from or arising out of any changes in any legal requirement or U.S. generally accepted accounting principles; or (vi) any adverse effect resulting from or arising out of actions taken by (or any inactions of) the Wisconsin Alumni Research Foundation (including with respect to the delivery to Geron of any termination notice under any existing license with Geron or otherwise).

Survival of Representations and Warranties

The representations and warranties of the parties to the Asset Contribution Agreement will expire upon the earlier of the first anniversary of the closing under the Asset Contribution Agreement, subject to exceptions for certain specified representations which will expire on the third anniversary of the closing.

Pre-Closing Covenants

Access and Investigation

Prior to closing under the Asset Contribution Agreement, Geron is required to provide BioTime with reasonable access to certain of Geron’s books and records pertaining to the assets contributed by Geron to Asterias.

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Maintenance of Contributed Assets

We have agreed to preserve intact the BioTime Stem Cell Assets during the period prior to the closing under the Asset Contribution Agreement and, with certain exceptions, not to, without Geron's prior written consent:

· sell, pledge, mortgage, encumber, sell and leaseback, transfer, assign, convey, lease or license, or authorize any of the foregoing, with respect to any of the BioTime Stem Cell Assets; or

· amend our Articles of Incorporation or bylaws.

Subject to certain reasonableness limitations, Geron has agreed to preserve intact and maintain the Contributed Geron Assets in the state in which they were maintained as of January 4, 2013. Geron has agreed (a) to maintain the ViaCyte Appeal, and not to discharge, settle, compromise use, release or waive any material claims relating to or impair Geron's rights continue, appeal, settle or compromise the ViaCyte Appeal, without our consent, (b) to reasonably consult with us to the extent permitted by ViaCyte, Inc. with respect to any licenses being negotiated with respect to patents which are subject to the ViaCyte Appeal and related patent interference proceedings, and (c) not to license any such patents without our consent. Our consent to the foregoing may not be unreasonably withheld, conditioned, or delayed.

Restrictions on Solicitation

Geron is not permitted to initiate, solicit or knowingly encourage inquiries, or engage in discussions or negotiations with third parties regarding any proposal to acquire more than an immaterial portion of the Contributed Geron Assets, or approve, adopt or enter into any agreement providing for, or negotiations in respect of, the acquisition of more than an immaterial portion of the Contributed Geron Assets, subject to Geron's ability to solicit and engage in certain change of control transactions other than a change of control transaction that would reasonably be expected to adversely affect, materially delay or prevent the consummation of the Asset Contribution Transaction.

We and Asterias are not permitted to initiate, solicit, or knowingly encourage inquiries, or engage in discussions or negotiations with third parties regarding any proposal for a transaction that could reasonably be expected to materially delay or prevent the Asset Contribution Transaction, or approve or adopt any such proposal, or enter into any agreement providing for, or negotiations in respect of, any such proposal, subject to the fiduciary duties of our Board of Directors.

We may furnish information with respect to us and our subsidiaries (including Asterias) to a person making a bona fide, written unsolicited proposal for a transaction that could reasonably be expected to materially delay or prevent the Asset Contribution and engage in or participate in discussions or negotiations regarding such a proposal, if, but only if: (a) neither BioTime nor Asterias has breached the non-solicitation provisions of the Asset Contribution Agreement and no representative of BioTime or Asterias has taken any action that would constitute a breach of the non-solicitation provisions of the Asset Contribution Agreement if such action had been taken by BioTime or Asterias, (b) our Board of Directors has determined in good faith after taking into account the advice of our outside legal counsel that the failure to act on such a proposal would be materially inconsistent with the directors' fiduciary duties under applicable law, and (c) concurrently with or prior to furnishing any such information to, or entering into discussions or negotiations with, such person, we (i) give Geron written notice of our intention to furnish information to, or enter into discussions or negotiations with, such person, and (ii) we receive from such person an acceptable confidentiality agreement.

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Filings; Other Actions; Notifications

We, Asterias and Geron have agreed to use our respective reasonable best efforts to timely take all actions necessary or appropriate for purposes of consummating and effecting the transactions contemplated by the Asset Contribution Agreement. In addition, we, Asterias and Geron have agreed to use reasonable best efforts to promptly make and effect all registrations, filings and submissions required to be made or effected pursuant to the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended (the “HSR Act”), the Securities Exchange Act of 1934, as amended (the “Exchange Act”) and other applicable legal requirements, with respect to the transactions contemplated under the Asset Contribution Agreement.

We, Asterias and Geron have agreed, subject to certain exceptions, to:

use reasonable best efforts to promptly take all actions, and do all things necessary to cause the conditions to the consummation of the transactions under the Asset Contribution Agreement to be satisfied as promptly as practicable and to consummate and make effective, in the most expeditious manner reasonably practicable, the transactions contemplated by the Asset Contribution Agreement;

use reasonable best efforts to provide any information requested by any governmental authority in connection with the transactions under the Asset Contribution Agreement;

use reasonable best efforts to contest and resist any actual or threatened administrative or judicial action, or any legal proceedings, instituted by a governmental authority or private party challenging any of the transactions under the Asset Contribution Agreement; and

keep each other apprised of any request, inquiry, investigation, action or legal proceeding with respect to any transaction under the Asset Contribution Agreement, and keep each other informed as to the status of any of the foregoing and any communications with any government authority regarding the foregoing.

HSR Act

Currently, a filing under the HSR Act will not be required because we, Asterias, and Geron do not meet certain size thresholds under the HSR Act. However, in the event that prior to the closing under the Asset Contribution Agreement the requisite size thresholds are exceeded, a filing would be required under the HSR Act.

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Subject to certain limitations, in order to obtain any needed antitrust consent, approval or clearance from, and avoid any challenge or action by, the U.S. Federal Trade Commission or the U.S. Department of Justice that would prevent the consummation of the Asset Contribution, we and Asterias may be required to (a) divest of, or enter into a voting trust, proxy arrangement, “hold separate” or similar arrangement or agreement with respect to, an immaterial asset or business or any immaterial portion of any our or our affiliates’ assets or business, including Asterias and the Geron Contributed Assets, (b) cause an immaterial portion of our or Asterias’s intellectual property rights to be made available to other persons, or (c) cause an immaterial contract or business relationship between us or Asterias or any of our affiliates and any other person to be terminated or modified. We and Asterias are not required to take the foregoing actions to the extent that they would, taken together, have an adverse impact in any material respect on the assets or business of us, Asterias, or our respective affiliates, or on the Contributed Geron Assets.

Registration of BioTime and Asterias Securities

With limited exceptions, to the extent required by applicable legal requirements, we and Asterias are required to use reasonable best efforts to register or qualify (or obtain an exemption from such registration or qualification) the securities included in the BioTime Registration Statement and the Asterias Registration Statement, respectively, for offer and sale under the securities laws and blue sky laws of each of the jurisdictions in which such securities will be sold and/or distributed. We and Asterias are not required to (a) qualify generally to do business in any jurisdiction where we are not, or in the case of Asterias it is not, then so qualified, (b) take any action that would subject us or Asterias to general service of process in any such jurisdiction where we are not, or in the case of Asterias it is not, then so subject, or (c) register or qualify securities in any state or foreign jurisdiction in which the stockholders of Geron hold less than 20,000 shares of Geron common stock in the aggregate based upon information provided by Geron in a list.

WARF License

From and after January 4, 2013 and including the periods following the closing under the Asset Contribution Agreement, Geron is prohibited from transferring, assigning or sublicensing two license agreements between Geron and Wisconsin Alumni Research Foundation, or any rights thereunder, to any third party, by operation of law or otherwise, or exercising or asserting any rights under those license agreements against us or Asterias other than with respect to the periods prior to the closing under the Asset Contribution Agreement. Geron is required to terminate those license agreements at Asterias’s request concurrently with the execution by Asterias of a license with Wisconsin Alumni Research Foundation, or, if earlier, upon (a) a change of control of Geron or (b) the closing under the Asset Contribution Agreement.

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Conditions to Closing

Mutual Conditions

The respective obligations of each of BioTime, Asterias, and Geron to consummate the Asset Contribution Transaction are subject to the following conditions:

- the expiration or termination of any applicable waiting period under the HSR Act;
- absence of any litigation or proceeding of any governmental authority pending or threatened in writing to enjoin, delay, prohibit or restrict the consummation of the transactions under the Asset Contribution Agreement;
- absence of orders issued by any governmental authority of competent jurisdiction prohibiting the consummation of the transactions under the Asset Contribution Agreement; and
- the effectiveness of both the Asterias Registration Statement and the BioTime Registration Statement, and absence of any stop order suspending the effectiveness of either of those registration statements, or any proceeding for that purpose having been initiated or threatened in writing by the SEC.

Another condition to closing was satisfied when our shareholders approved the issuance of the common shares and the Contribution Warrants to be issued by us under the Asset Contribution Agreement, and approved an amendment of our Articles of Incorporation to increase our authorized capital stock in order to provide us with a sufficient amount of common shares to issue in under the Asset Contribution Agreement and upon the exercise of the Contribution Warrants.

Conditions to BioTime's and Asterias's Obligations

The obligations of BioTime and Asterias to complete the Asset Contribution are subject to the following additional conditions:

the representations and warranties of Geron set forth in the Asset Contribution Agreement must be accurate in all respects as of the date of the closing under the Asset Contribution Agreement as if made on such date (except for representations and warranties which address matters as of a particular time, which must be accurate in all respects as of such particular time), except that any inaccuracies in such representations and warranties will be disregarded if the circumstances giving rise to such inaccuracies (considered collectively) do not constitute a Geron Material Adverse Effect;

Geron must have complied with and performed in all material respects all covenants and obligations required to be performed by it prior to the closing under the Asset Contribution Agreement;

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Geron must have delivered a certificate, executed by an executive officer of Geron certifying the above conditions have been satisfied;

Geron must have delivered to us and Asterias certain other documents, executed by Geron, including (a) the Royalty Agreement, and the Telomerase Sublicense, (b) a notice of assignment of U.S. patents included in the patents contributed by Geron, (c) bills of sale and other similar documents in connection with the transfer and delivery of good and valid title to the Contributed Geron Assets to Asterias, and (d) third party consents listed on a schedule to the Asset Contribution Agreement; and

·the absence of a Geron Material Adverse Effect.

Conditions to Geron's Obligations

Geron's obligation to complete the Asset Contribution is subject to the following additional conditions:

each of the representations and warranties made by us and Asterias with respect to our and Asterias' capitalization and the validity of our and Asterias' respective securities, the capitalization of OrthoCyte Corporation, and the capitalization of Cell Cure Neurosciences, Ltd. must be accurate in all respects as of the closing under the Asset Contribution Agreement as if made on and as of that date, except that any inaccuracies in such representations and warranties that are de minimis in nature will be disregarded;

each of the representations and warranties made by us and Asterias with respect to our Articles of Incorporation and Asterias' Certificate of Incorporation in effect as of the closing under the Asset Contribution Agreement, and the absence of any BioTime Material Adverse Effect, and any event or circumstance that would reasonably be expected to have or result in a BioTime Material Adverse Effect, since September 30, 2012, must be accurate in all respects as of the closing under the Asset Contribution Agreement as if made on and as of that date;

each of the remaining representations and warranties made by us and Asterias must be accurate in all respects as of the date of the closing under the Asset Contribution Agreement as if made on and as of that date (except for representations and warranties which address matters as of a particular time, which must be accurate in all respects as of such particular time), except that any inaccuracies in the representations and warranties will be disregarded if the circumstances giving rise to the inaccuracies, considered collectively, do not constitute a BioTime Material Adverse Effect;

we and Asterias must have complied with and performed in all material respects all covenants and obligations required to be performed by BioTime and Asterias prior to the closing under the Asset Contribution Agreement;

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we and Asterias must have delivered to Geron a certificate, executed by an executive officer of each of us certifying that the above conditions have been satisfied;

Geron must have received (a) an Assumption Agreement pertaining to Assumed Geron Liabilities, and the Royalty Agreement executed by Asterias, (b) share certificates evidencing the Asterias Series A Shares that Asterias will issue to Geron, and (c) assignment, assumption and other documents necessary or appropriate to effect the assumption by Asterias of the Assumed Geron Liabilities;

the Insurance Policy must be in full force and effect; and

we must have contributed to Asterias the assets required to be contributed by us under the Asset Contribution Agreement.

Expense Reimbursement

If the closing under the Asset Contribution Agreement occurs, we are required to pay to Geron, as partial reimbursement of fees and expenses incurred by Geron's advisors, \$750,000, either in cash or, at our election, by issuing to Geron additional common shares ("Expense Reimbursement Shares"), or a combination of cash and Expense Reimbursement Shares. Any Expense Reimbursement Shares would be valued based on the volume-weighted average per share closing price of our common shares for the twenty consecutive trading days immediately prior to the closing under the Asset Contribution Agreement. We presently anticipate that we would issue no more than 187,500 common shares as Expense Reimbursement Shares.

The Series A Distribution

In the Asset Contribution Agreement, Geron has agreed to distribute to its stockholders, on a pro rata basis, the Asterias Series A Shares it receives in the Asset Contribution. Geron is required to make the Series A Distribution as soon as practicable following the closing of the Asset Contribution, subject to applicable legal requirements and certain other limitations. Under the Asset Contribution Agreement, fractional shares will not be distributed in the Series A Distribution, and instead will be aggregated and sold for cash and the net cash proceeds of the sale will be distributed ratably to Geron stockholders who would otherwise be entitled to receive fractional shares. Also, in lieu of distributing the Asterias Series A Shares in any jurisdiction where it would be unlawful to do so, and in certain other to-be-determined excluded jurisdictions, the Asterias Series A Shares that otherwise would have to been distributed to Geron stockholders who reside in those jurisdictions will be sold for cash and the net cash proceeds will be distributed ratably to those stockholders.

The Contribution Warrants Distribution

As soon as practicable after Geron notifies Asterias of the completion of the Series A Distribution, and to the extent permitted by applicable legal requirements, Asterias will distribute to the holders of the Asterias Series A Shares, on a pro rata basis, the 8,000,000 Contribution Warrants that Asterias will receive in the Asset Contribution. As a result, Asterias will not derive any future economic value from the Contribution Warrants and instead the value of the Contribution Warrants will benefit the holders of Asterias Series A Shares who receive the Contribution Warrants.

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Post-Closing Obligations Relating to Registration Statements

The Asset Contribution Agreement imposes a number of post-closing obligations on us, with respect to the Contribution Warrants and the underlying common shares, and on Asterias with respect to the Asterias Series A Shares, including requirements relating to:

- keeping or making effective the BioTime Registration Statement, this prospectus, the Asterias Registration Statement and the Asterias Prospectus, and qualification or exemption of securities under securities laws and blue sky laws;
- supplementing or amending the BioTime Registration Statement, this prospectus, the Asterias Registration Statement or the Asterias Prospectus;
- compliance with applicable legal requirements; and
- notice to Geron of certain matters.

Indemnification and Insurance

Distributions Indemnity; Insurance

We and Asterias have agreed to jointly and severally indemnify Geron and certain of its affiliates from certain losses and liabilities, including any losses relating to certain claims that could arise as a result of any untrue statement or alleged untrue statement of material fact in, or omission or alleged omission to state any material fact required in order to make the statements not misleading from this prospectus and the registration statement of which it is a part, from the Asterias Registration Statement and the prospectus contained therein, and/or from other distributions of securities by Asterias to the holders of Asterias Series A Shares. These indemnification obligations would apply to any claims relating to the Series A Distribution, the Contribution Warrants Distribution, and/or other distributions of securities by Asterias to the holders of Asterias Series A Shares within one year following the closing under the Asset Contribution Agreement, provided that the claims arise on or before the fifth anniversary of the date on which all of the Contribution Warrants have either expired or been exercised, cancelled or sold. We refer to such indemnification obligations as the “Distributions Indemnity.”

We are required under the Asset Contribution Agreement to use reasonable best efforts to procure at our cost and expense a prospective liability insurance policy (the “Insurance Policy”), on terms reasonably acceptable to Geron, to provide \$10,000,000 of coverage for our indemnification obligations under the Distribution Indemnity. Obtaining the Insurance Policy is a condition to Geron’s obligation to consummate the closing under the Asset Contribution Agreement. The Insurance Policy must be kept in place for the period beginning on the earliest effect date of the BioTime Registration Statement and/or the Asterias Registration Statement, and ending on the fifth anniversary of that effective date.

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Other Indemnification Obligations

Separate from the Distributions Indemnity, we and Asterias have agreed to indemnify Geron and its current and future affiliates and Control Persons (as defined below) of Geron, and each of their respective successors and assigns, and Geron has agreed to indemnify us and Asterias and our and Asterias's respective current and future affiliates, Control Persons of each of us and Asterias, and each of their respective successors and assigns, from and against "damages" arising from any inaccuracy or breach of the indemnifying party's representations and warranties, or any breach of any covenant by an indemnifying party, under the Asset Contribution Agreement. For the purpose of these indemnification obligations, "damages" are limited to any documented, out-of-pocket loss, damage, judgment award, fee (including any legal fee, expert fee, accounting fee or advisory fee) or expenses (regardless of whether or not the damages relate to a third party claim), but excluding any special, indirect or consequential damages. "Control Persons" refers to any person who controls a party within the meaning of either Section 15 of the Securities Act or Section 20 of the Exchange Act.

In addition, subject to certain limitations, from and after the closing of the Asset Contribution, Geron has agreed to indemnify us and Asterias from liabilities relating to the Contributed Geron Assets, and from encumbrances upon the Contributed Geon Assets, other than the Assumed Geron Liabilities. Asterias has agreed to indemnify Geron for the Assumed Geron Liabilities.

The maximum damages recoverable from us and Asterias by Geron (or by us and Asterias from Geron) for indemnifiable losses is limited to \$2,000,000 in the aggregate, and recovery of damages is subject to a \$50,000 deductible, except that the \$2,000,000 limit and the \$50,000 deductible do not apply (a) in the case of fraud; (b) in the case of covenants of a party that must be performed following the closing under the Asset Contribution Agreement; and (c) with respect to liabilities to the extent related to, and encumbrances upon, the Contributed Geron Assets or the Assumed Geron Liabilities.

Exclusive Remedy

Except with respect to the Distributions Indemnity or claims against an indemnitor for fraud, and subject to any injunction or equitable remedies, from and after the closing under the Asset Contribution Agreement the indemnification provisions are a party's exclusive remedy and cause of action against an indemnifying party with respect to any matter arising out of or in connection with the Asset Contribution Agreement

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Termination

The Asset Contribution Agreement may be terminated by BioTime or Geron if:

the closing under the Asset Contribution Agreement has not taken place on or before September 30, 2013; however, the right to terminate will not be available to a party if the failure to close by such date is the result of that party's failure to comply with or perform its covenants and obligations under the Asset Contribution Agreement; or

a court of competent jurisdiction or other governmental body has issued a final and non-appealable order, or has taken any action permanently restraining, enjoining or otherwise prohibiting any of the transactions contemplated by the Asset Contribution Agreement. However, the right to terminate will not be available to a party if such order or the taking of such other action is the result of that party's failure to comply with or perform its covenants and obligations under the Asset Contribution Agreement;

BioTime may also terminate the Asset Contribution Agreement if:

Geron's representations and warranties are inaccurate or become inaccurate, or if Geron breaches in any material respect any of its covenants under the Asset Contribution Agreement, but only if, the inaccuracy or breach would cause the closing conditions under the Asset Contribution Agreement concerning Geron's representations and warranties or performance of its obligations not to be satisfied and the inaccuracy or breach is not cured by Geron within 30 calendar days after receiving written notice from us of the inaccuracy or breach; or

a Geron Material Adverse Effect has occurred and, if curable, is not cured within 30 calendar days after receipt of written notice from us of our intent to terminate the Asset Contribution Agreement based upon the occurrence of the Geron Material Adverse Effect.

Geron may also terminate the Asset Contribution Agreement if:

our or Asterias's representations and warranties are inaccurate or become inaccurate, or if we or Asterias breach in any material respect any of our or Asterias's respective covenants under the Asset Contribution Agreement, but only if the inaccuracy or breach would cause the closing conditions under the Asset Contribution Agreement concerning our or Asterias's representations and warranties or performance of our or Asterias's obligations not to be satisfied and the inaccuracy or breach is not cured by us or Asterias within 30 calendar days after receiving written notice from Geron of the inaccuracy or breach; or

a BioTime Material Adverse Effect has occurred and, if curable, is not cured within 30 calendar days after receipt of written notice from Geron of its intent to terminate the Asset Contribution Agreement based upon the occurrence of the BioTime Material Adverse Effect.

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DESCRIPTION OF SECURITIES

Common Shares

Our Articles of Incorporation currently authorize the issuance of up to 125,000,000 common shares, no par value, of which 57,938,220 shares were outstanding at August 7, 2013.

As of June 30, 2013, there were 15,463 holders of the common shares based on the share position listing. Each holder of record is entitled to one vote for each outstanding common share owned by the holder on every matter properly submitted to the shareholders for their vote.

Subject to the dividend rights of holders of any of the preferred shares that may be issued from time to time, holders of common shares are entitled to any dividend declared by the Board of Directors out of funds legally available for that purpose. We have not paid any cash dividends on our common shares, and it is unlikely that any cash dividends will be declared or paid on any common shares in the foreseeable future. Instead, we plan to retain our cash for use in financing our future operations and growth.

Subject to the prior payment of the liquidation preference to holders of any preferred shares that may be issued, holders of common shares are entitled to receive on a pro rata basis all of our remaining assets available for distribution to the holders of common shares in the event of the liquidation, dissolution, or winding up of our operations. Holders of common shares do not have any preemptive rights to become subscribers or purchasers of additional shares of any class of our capital stock.

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Transfer Agent

The transfer agent and registrar for the common shares is American Stock Transfer and Trust Company, LLC, 6201 15th Avenue, Brooklyn, New York 11219.

Preferred Shares

Our Articles of Incorporation currently authorize the issuance of up to 2,000,000 preferred shares, no par value. We may issue preferred shares in one or more series, at any time, with such rights, preferences, privileges and restrictions as the Board of Directors may determine, all without further action of our shareholders. Any series of preferred shares which may be authorized by the Board of Directors in the future may be senior to and have greater rights and preferences than the common shares. There are no preferred shares presently outstanding and we have no present plan, arrangement, or commitment to issue any preferred shares.

Contribution Warrants

We will issue 8,000,000 Contribution Warrants to Asterias under the Asset Contribution Agreement. Each Contribution Warrant will entitle the holder to purchase one common share at a price of \$5.00 per share. Asterias has agreed to make the Contribution Warrants Distribution as soon as practicable after Geron notifies Asterias of the completion of the Series A Distribution. Geron has agreed to make the Series A Distribution as soon as practicable after the closing of the Asset Contribution.

How to Exercise Contribution Warrants

Contribution Warrants may be exercised in whole or in part by presentation of a warrant certificate to the Warrant Agent and payment of the exercise price. The purchase form on the reverse side of the Contribution Warrants must be completed and signed by the warrant holder, and if the shares being purchased are to be issued to a person other than the warrant holder, the warrant holder's signature must be guaranteed by a financial institution that is a participant in a recognized signature guarantee program. Payment of the exercise price of the Contribution Warrants must be made by personal check, bank cashier's check, or wire transfer.

Contribution Warrant holders who desire to exercise their Contribution Warrants should deliver their properly completed and signed warrant certificates to the Warrant Agent, American Stock Transfer & Trust Company, by hand, mail, express mail, or overnight courier at the following address:

American Stock Transfer & Trust Company
Attn: Reorganization Department
6201 15th Avenue
Brooklyn, New York 11219
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We suggest that you send funds for the payment of the warrant exercise price by wire transfer to American Stock Transfer & Trust Company, Warrant Agent, JP Morgan Chase Bank WIRE CLEARING ACCOUNT ABA #021000021, Account 530354624, Attention: Reorg. Dept. Before wiring funds, you should call the Warrant Agent at 1-800-937-5449 to confirm wiring instructions.

So long as the transfer agent for our common shares is participating in The Depository Trust Company (“DTC”) Fast Automated Securities Transfer Program, upon the request of the holder exercising Contribution Warrants, the Warrant Agent will, in lieu of delivering a certificate or certificates for common shares issuable upon exercise of a Contribution Warrant, credit the aggregate number of common shares to which the Contribution Warrant holder is entitled pursuant to such exercise to the holder’s or its designee’s balance account with DTC through its Deposit/Withdrawal At Custodian system.

A warrant holder may not rescind the exercise of their Contribution Warrants.

Expiration Date of Contribution Warrants

The Contribution Warrants will expire at 5:00 p.m. New York time on _____, 2018 and may not be exercised after that date.

Prohibition on below market exercise of Contribution Warrants

So long as our common shares are publicly traded, the Contribution Warrants may not be exercised on any day on which the closing price of our common shares for the day is lower than the exercise price. The closing price of the common shares for each trading day shall be the last reported sales price regular way or, in case no such reported sale takes place on such day, the average of the closing bid and asked prices regular way for such day, in each case on the principal national securities exchange on which the common shares are listed or admitted to trading or, if not so listed or admitted to trading, the last sale price of the common shares on the OTC Bulletin Board, or any comparable system. The closing price of the common shares for any day that is not a trading day shall be the closing price for the most recent trading day.

Adjustment of the Number of Shares and Exercise Price

The number of common shares issuable upon the exercise of the Contribution Warrants, and the exercise price per share, will be proportionally adjusted in the event of a stock split, stock dividend, combination, reclassification of our common shares or similar recapitalization.

The number of common shares issuable upon the exercise of the Contribution Warrants, and exercise price per share will also be adjusted if we issue rights, options or warrants to all holders of our outstanding common shares, without any charge to those holders, entitling them to subscribe for or purchase common shares at a price per share which is lower at the record date than the then current market price per share of our common shares. In that case, the number of common shares thereafter purchasable upon the exercise of each Contribution Warrant will be determined by multiplying the number of common shares otherwise issuable upon exercise of each Contribution Warrant by a fraction, the numerator of which will be the number of common shares outstanding on the date of issuance of such rights, options or warrants plus the number of additional common shares offered for subscription or purchase in connection with the rights, options or warrants issued without charge, and the denominator of which will be the number of common shares outstanding on the date of issuance of those rights, options or warrants plus the number of common shares which the aggregate exercise price for the total number of common shares issuable upon exercise of those rights, options or warrants would purchase at the current market price per share at the record date.

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If we distribute to all holders of our common shares (including any distribution made in connection with a merger in which we are the surviving corporation) evidences of our indebtedness or assets (excluding cash, dividends or distributions payable out of consolidated earnings or earned surplus or stock dividends) or rights, options or warrants, or convertible or exchangeable securities containing the right to subscribe for or purchase common shares (excluding those referred to in the preceding paragraph), then in each case the number of common shares purchasable upon the exercise of each Contribution Warrant shall be determined by multiplying the number of common shares theretofore purchasable upon the exercise of each Contribution Warrant by a fraction, the numerator of which will be the then current market price per common share on the date of such distribution, and the denominator of which will be the then current market price per common share, less the then fair value (as reasonably determined by our Board of Directors) of the portion of the assets or evidences of indebtedness so distributed or of such subscription rights, options or warrants, or of such convertible or exchangeable securities applicable to one common share.

Whenever the number of common shares purchasable upon the exercise of the Contribution Warrants is adjusted, the price payable upon exercise of the Contribution Warrants will be adjusted by multiplying the exercise price immediately prior to the adjustment by a fraction, the numerator of which will be the number of common shares purchasable upon the exercise of each Contribution Warrant immediately prior to the adjustment, and the denominator of which will be the number of common shares purchasable immediately thereafter.

Upon the expiration of any rights, options, warrants or conversion or exchange privileges that result in an adjustment of the number of common shares issuable upon the exercise of the Contribution Warrants and the exercise price, the number of common shares purchasable upon the exercise of the Contribution Warrants and the exercise price will be readjusted and shall thereafter be such as it would have been had it been originally adjusted (or had the original adjustment not been required, as the case may be) as if (A) the only common shares, if any, so issued were the shares actually issued or sold upon the exercise of the rights, options, warrants or conversion or exchange rights, and (B) those shares were issued or sold for the consideration actually received by us upon such exercise plus the aggregate consideration, if any, actually received by us for the issuance, sale or grant of all of those rights, options, warrants or conversion or exchange rights whether or not exercised.

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Preservation of Purchase Rights Upon Merger, Consolidation, and Certain Other Transactions

The Warrant Agreement governing the Contribution Warrants provides that if we consolidate with or merge into another corporation, or if we sell, transfer or lease to another corporation all or substantially all our assets, we or our successor or the corporation that purchases us or our assets shall execute an agreement providing that each Contribution Warrant holder shall have the right thereafter, upon such warrant holder's election, either (i) upon payment of the exercise price of the Contribution Warrants in effect immediately prior to the transaction, to purchase upon exercise of their Contribution Warrant the "Sale Consideration," or (ii) to receive, in cancellation of their Contribution Warrants (and in lieu of paying the exercise price and exercising their Contribution Warrants), the Sale Consideration less a portion having a fair market value (as reasonably determined by us) equal to the exercise price; provided, however, that no adjustment in respect of dividends, interest or other income on or from such shares or other securities and property shall be made during the term of a Contribution Warrant or upon the exercise of a Contribution Warrant. The "Sale Consideration" means the kind and amount of shares and other securities and property (including cash) which the Contribution Warrant holder would have owned or have been entitled to receive after the consolidation, merger, sale, transfer or lease had they exercised their Contribution Warrants immediately prior to the transaction.

No Rights as Shareholders.

The Contribution Warrants do not confer upon the warrant holders the right to vote or to receive dividends or to consent or to receive notice as shareholders in respect of any meeting of shareholders for the election of directors or any other matter, or any other rights whatsoever as our shareholders.

Notices to Warrant Holders

Under the Warrant Agreement governing the Contribution Warrants, we will give Contribution Warrant holders notice of any of the following actions that we plan to take: (a) a declaration of any dividend payable in any securities upon our common shares, or any distribution to holders of common shares, other than a regular cash dividend, as such dividend may be increased from time to time, or a dividend payable in common shares; or (b) an offer to the holders of common shares on a pro rata basis any cash, additional common shares or other securities to be issued by us, or any right to subscribe for or purchase any of our securities; or (c) a dissolution, liquidation or winding up of our business other than in connection with a consolidation, merger, sale, transfer or lease of all or substantially all of our property, assets, and business as an entirety. We will give Contribution Warrant holders the notice at least 10 days prior to the date fixed as a record date or the date of closing the transfer books for the determination of the shareholders entitled to such dividend, distribution, or subscription rights or for the determination of shareholders entitled to vote on such proposed dissolution, liquidation or winding up or the date of expiration of the offer. The notice shall specify such record date or the date of closing the transfer books or the date of expiration, as the case may be. Any failure on our part to publish or mail a notice, or any failure of a Contribution Warrant holder to receive a notice, or any defect in a notice or in the publication or mailing of a notice shall not affect the validity of any action in connection with such dividend, distribution or subscription rights, or such proposed dissolution, liquidation or winding up, or offer.

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Amendment of Contribution Warrants

The Warrant Agreement defining the terms of the Contribution Warrants may be amended, supplemented or modified only by an instrument in writing signed by us and the Warrant Agent and with the affirmative vote or written consent of holders of record of a majority of the Contribution Warrants then outstanding; except that such vote or consent shall not be required for any amendment, supplement or modification that reduces the exercise price or extends the expiration date of the Contribution Warrants. In determining whether the holders of the required number of outstanding Contribution Warrants have approved any amendment, supplement or modification to the Warrant Agreement, Contribution Warrants owned by us or any of our controlled affiliates, if any, shall be disregarded and deemed not to be outstanding. The prior written consent of Geron shall also be required for any amendment, supplement or modification of the Warrant Agreement, any Contribution Warrant that: (i) extends or would have the effect of extending the expiration date; or (ii) adversely affects the rights of Geron under the Warrant Agreement.

The foregoing description of the Contribution Warrants is only a summary and does purport to be a complete description of all of the terms of the Contribution Warrants, which are contained in a Warrant Agreement. The Warrant Agreement has been filed as an exhibit to the Registration Statement of which this prospectus is a part. The foregoing summary is qualified in all respects by the terms of the Warrant Agreement which are incorporated herein by reference.

Warrants

In addition to the Contribution Warrants offered by this prospectus, at August 7, 2013 we had issued and outstanding 1,751,615 other warrants that have exercise prices and expiration dates shown in the following table, and other terms that differ from the Contribution Warrants.

Number of Warrants	Shares Issuable ⁽¹⁾	Exercise Price ⁽¹⁾	Expiration Date
50,000	50,000	\$ 10.00	April 24, 2014
300,000	300,000	\$ 10.00	May 2, 2014
206,613	206,613	\$ 10.00	May 2, 2014
649,998	649,998	\$ 5.00	January 13, 2016
545,004	545,004	\$ 5.00	June 5, 2016

(1) The number of common shares and exercise price will be proportionally adjusted in the event of a stock split, stock dividend, combination, or similar recapitalization of the common shares, and in the case of the warrants that will expire on January 13, 2016 and June 5, 2016, upon the occurrence of certain other transactions that could also result in an adjustment of the number of common shares issuable under, and the exercise price of, the Contribution Warrants.

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PLAN OF DISTRIBUTION

Distribution of Contribution Warrants

Asterias has agreed to distribute 8,000,000 Contribution Warrants, which we will issue to Asterias under the Asset Contribution Agreement, to the holders of Asterias Series A Shares as soon as practicable after Geron notifies Asterias of the completion of the Series A Distribution. Geron has agreed to complete the Series A Distribution as soon as practicable after the closing of the Asset Contribution.

A Geron stockholder or other holder of Asterias Series A Shares who receives Contribution Warrants in the Contribution Warrant Distribution will need to allocate a portion of their basis in their Asterias Series A Shares to the Contribution Warrants they receive. The amount of basis allocable to the Contribution Warrants will be the fair market value of the Contribution Warrants on the date of the Series A Distribution.

Asterias will be deemed an "underwriter" as defined in the Securities Act with respect to the Contribution Warrants Distribution.

Sale of Shares by Asterias

We will issue 8,902,077 of the common shares included in this prospectus to Asterias under the Asset Contribution Agreement. We may elect to issue to Asterias 2,373,887 additional common shares, a portion of which we may elect to issue to Asterias in lieu of contributing additional cash in the unexpected event that Romulus fails to make a \$5,000,000 cash investment in Asterias or if we determine to contribute additional common shares rather than cash to Asterias.

Asterias may sell its BioTime common shares from time to time by any method that is deemed to be an "at-the-market" equity offering as defined in Rule 415 promulgated under the Securities Act, including sales made directly on or through the NYSE MKT or any other existing trading market for the common shares in the U.S. or to or through a market maker, at prices related to the prevailing market price, or in privately negotiated transactions or through block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction, or through one more of the foregoing transactions. Asterias will sell its BioTime common shares through Cantor Fitzgerald & Co. or such other broker-dealer as BioTime may designate.

Asterias will bear all broker-dealer commissions payable in connection with the sale of its BioTime common shares.

Broker-dealers who acquire BioTime common shares from Asterias as principals may resell the common shares from time to time in transactions on the NYSE MKT, or may resell the common shares in negotiated transactions at negotiated prices, and may receive usual and customary commissions from the purchasers of the shares.

Broker-dealers engaged by Asterias may arrange for other brokers-dealers to participate in sales. Broker-dealers may receive commissions or discounts from Asterias (or, if any broker-dealer acts as agent for the purchaser of shares, from the purchaser) in amounts to be negotiated.

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The offering of BioTime common shares to Asterias through this prospectus will be deemed a primary “at-the market” offering by BioTime in which Asterias, as a statutory “underwriter” as defined in the Securities Act, will offer the BioTime common shares to the public through a registered broker dealer. Any broker-dealer who participates in the sale of BioTime common shares by Asterias will also be an “underwriter” as defined in the Securities Act. Any commissions paid or any discounts or concessions allowed to any broker-dealers in connection with the sale of the common shares and any profits received on the resale of any common shares purchased by broker-dealers as principals, will be deemed to be underwriting discounts and commissions under the Securities Act.

During the time that Asterias may be engaged in a distribution of its BioTime common shares it will (a) not engage in any stabilization activity in connection with our securities, (b) cause to be furnished to each broker through whom the shares may be offered the number of copies of this prospectus required by the broker, and (c) not bid for or purchase any of our securities, or attempt to induce any person to do so, other than as permitted under the Exchange Act.

Sale of Shares by Geron

Under the Asset Contribution Agreement, we are required to pay to Geron, as partial reimbursement of fees and expenses incurred by Geron’s advisors, \$750,000, either in cash or, at our election, by issuing to Geron Expense Reimbursement Shares, or a combination of cash and Expense Reimbursement Shares. Any Expense Reimbursement Shares would be valued based on the volume-weighted average per share closing price of our common shares for the twenty consecutive trading days immediately prior to the closing under the Asset Contribution Agreement. We presently anticipate that we would issue no more than 187,500 common shares as Expense Reimbursement Shares.

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Geron has advised us that they may sell the Expense Reimbursement Shares from time to time, including pursuant to sales made directly on or through the NYSE MKT or any other existing trading market for the common shares in the U.S. or to or through a market maker, at prices related to the prevailing market price, or in privately negotiated transactions or through block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction, or through one or more of the foregoing transactions.

Geron and any broker-dealers who participate in the sale of Expense Reimbursement Shares may be deemed to be “underwriters” as defined in the Securities Act. Any commissions paid or any discounts or concessions allowed to any broker-dealers in connection with the sale of the Expense Reimbursement Shares and any profits received on the resale of any Expense Reimbursement Shares purchased by broker-dealers as principals, may be deemed to be underwriting discounts and commissions under the Securities Act. Under the terms of the Asset Contribution Agreement, we have agreed to indemnify Geron against certain liabilities, including certain liabilities arising under the Securities Act. Because Geron may be deemed to be an “underwriter” within the meaning of the Securities Act, it will be subject to the prospectus delivery requirements of the Securities Act.

To our knowledge, there are currently no plans, arrangements or understandings between Geron and any underwriter, broker-dealer or agent regarding the sale of the Expense Reimbursement Shares. Geron may decide not to sell any of the Expense Reimbursement Shares, or might decide to transfer the Expense Reimbursement Shares by other means not described in this prospectus. Additionally, Geron may resell all or a portion of the Expense Reimbursement Shares in open market transactions pursuant to Rule 144 under the Securities Act rather than pursuant to this prospectus, so long as they meet the applicable criteria and conform to the requirements of that rule.

Geron and any other person participating in the distribution of the Expense Reimbursement Shares will be subject to applicable provisions of the Exchange Act, and the rules and regulations thereunder, including, without limitation, to the extent applicable, Regulation M of the Exchange Act, which may limit the timing of purchases and sales of any of our common shares by Geron and any other participating person. To the extent applicable, Regulation M may also restrict the ability of any person engaged in the distribution of our common shares to engage in market-making activities with respect to our common shares. All of the foregoing may affect the marketability of our common shares and the ability of any person or entity to engage in market-making activities with respect to our common shares.

Dr. Thomas Okarma serves as Chief Executive Officer of Asterias. From July 1999 until February 2011, Dr. Okarma served as President, Chief Executive Officer and a member of the board of directors of Geron. In February 2011, Dr. Okarma entered into a Transition and Separation Agreement with Geron pursuant to which Geron paid to Dr. Okarma \$401,250 through July 2013 for transition consulting services.

Geron owned no Bio Time common shares as of August 7, 2013. If Geron sells all of the Expense Reimbursement Shares that it may receive under the Asset Contribution Agreement, it will own no Bio Time common shares after such sale.

LEGAL MATTERS

The validity of the common shares and the Contribution Warrants included in this prospectus will be passed upon for BioTime by Thompson, Welch, Soroko & Gilbert LLP, San Francisco and San Rafael, California. A member of Thompson, Welch, Soroko & Gilbert LLP holds 10,000 BioTime common shares.

EXPERTS

The financial statements incorporated in this prospectus by reference from BioTime’s Annual Report on Form 10-K as of December 31, 2012 and 2011, and for each of the years in the three-year period ended December 31, 2012 have

been audited by Rothstein Kass, independent registered public accounting firm, and are incorporated herein in reliance upon such report given upon the authority of said firm as experts in accounting and auditing.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to “incorporate by reference” information that we file with them. Incorporation by reference allows us to disclose important information to you by referring you to those other documents. The information incorporated by reference is an important part of this prospectus, and information that we file later with the SEC will automatically update and supersede this information. We filed a registration statement on Form S-3 under the Securities Act of 1933 with the SEC with respect to the securities being offered pursuant to this prospectus. This prospectus omits certain information contained in the registration statement, as permitted by the SEC. You should refer to the registration statement, including the exhibits, for further information about us and the securities being offered pursuant to this prospectus. Statements in this prospectus regarding the provisions of certain documents filed with, or incorporated by reference in, the registration statement are not necessarily complete and each statement is qualified in all respects by that reference. Copies of all or any part of the registration statement, including the documents incorporated by reference or the exhibits, may be obtained upon payment of the prescribed rates at the offices of the SEC listed below in “WHERE YOU CAN FIND MORE INFORMATION.” The documents we are incorporating by reference are:

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·our Annual Report on Form 10-K, as amended, for the fiscal year ended December 31, 2012;

·our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2013 and June 30, 2013;

our Current Reports on Form 8-K filed with the SEC on January 8, January 10, March 7, March 12, March 21, April 30, May 13, May 15, May 23, June 3, and June 12, 2013 (not including any information furnished under Items 2.02 or 7.01, including the related exhibits, which information is not incorporated by reference herein);

·our definitive proxy solicitation materials filed with the SEC on April 30, 2012; and

all of the filings pursuant to the Securities Exchange Act of 1934, as amended, after the date of the filing of the original registration statement and prior to the effectiveness of the registration statement.

In addition, all documents subsequently filed by us pursuant to Section 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended, before the date our offering is terminated or completed are deemed to be incorporated by reference into, and to be a part of, this prospectus.

Any statement contained in this prospectus or in a document incorporated or deemed to be incorporated by reference into this prospectus will be deemed to be modified or superseded for purposes of this prospectus to the extent that a statement contained in this prospectus or any other subsequently filed document that is deemed to be incorporated by reference into this prospectus modifies or supersedes the statement. Any statement so modified or superseded will not be deemed, except as so modified or superseded, to constitute a part of this prospectus.

We will furnish without charge to you, on written or oral request, a copy of any or all of the documents incorporated by reference, including exhibits to these documents. You should direct any requests for documents to BioTime, Inc., Attention: Secretary, 1301 Harbor Bay Parkway, Alameda, California 94502, (510) 521-3390.

You should rely only on information contained in, or incorporated by reference into, this prospectus and the accompanying prospectus. We have not authorized anyone to provide you with information different from that contained in this prospectus or the accompanying prospectus, or incorporated by reference in this prospectus or the accompanying prospectus.

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WHERE YOU CAN FIND MORE INFORMATION

This prospectus 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, which forms a part of the registration statement, does 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 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 are subject to the informational requirements of the Securities Exchange Act of 1934, as amended, and in accordance therewith file quarterly, annual, and current reports and proxy statements and other information with the SEC. You may read and copy any materials we file with SEC at the Commission'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.

The SEC maintains an Internet site that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC. The address of the site is <http://www.sec.gov>.

We make available free of charge on or through our Internet website www.biotimeinc.com our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after we electronically file the material with, or furnish it to, the SEC.

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No dealer, salesperson or other person has been authorized in connection with this offering to give any information or to make any representations other than those contained in this Prospectus. This Prospectus does not constitute an offer or a solicitation in any jurisdiction to any person to whom it is unlawful to make such an offer or solicitation. Neither the delivery of this Prospectus nor any sale made hereunder shall, under any circumstances, create an implication that there has been no change in the circumstances of BioTime or the facts herein set forth since the date hereof.

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11,463,464 Common Shares

8,000,000 Common Share Purchase Warrants

8,000,000 Common Shares Issuable Upon the Exercise of Warrants

PROSPECTUS

_____, 2013

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PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 14. Other Expenses of Issuance and Distribution.

The estimated expenses of the Registrant in connection with the issuance and distribution of the securities being registered hereby are as follows:

Registration Fee-Securities and Exchange Commission	\$11,327.38
Exchange Listing Fees	\$50,000
Printing and Engraving Expenses	\$40,000
Accounting Fees	\$20,000
Legal Fees	\$150,000
Miscellaneous Expenses	\$0
Total	\$271,327.38

Item 15. Indemnification of Directors and Officers.

Section 317 of the California Corporations Code permits indemnification of directors, officers, employees and other agents of corporations under certain conditions and subject to certain limitations. In addition, Section 204(a)(10) of the California Corporations Code permits a corporation to provide, in its articles of incorporation, that directors shall not have liability to the corporation or its shareholders for monetary damages for breach of fiduciary duty, subject to certain prescribed exceptions. Article Four of the Articles of Incorporation of the Registrant contains provisions for the indemnification of directors, officers, employees and other agents within the limitations permitted by Section 317 and for the limitation on the personal liability of directors permitted by Section 204(b)(10), subject to the exceptions required thereby.

Item 16. Exhibits and Financial Statement Schedules.

Exhibit	Description
Number	

- Asset Contribution Agreement, dated January 4, 2013, by and among BioTime, Inc., BioTime Acquisition Corporation and Geron Corporation (2) Schedules to the Asset Contribution Agreement have been omitted. BioTime agrees to furnish supplementally a copy of the omitted schedules to the Commission upon request.
- 4.1 Specimen of Common Share Certificate (1)
- 4.2. Form of Warrant Agreement between BioTime, Inc. and American Stock Transfer & Trust Company LLC*
- 4.3. Form of Warrant (included in Exhibit 4.2)
5. Opinion of Counsel**

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23.1 Consent of Rothstein Kass**

23.2 Consent of Counsel (included in Exhibit 5)**

(1) Incorporated by reference to Registration Statement on Form S-1, File Number 33-44549 filed with the Securities and Exchange Commission on December 18, 1991, and Amendment No. 1 and Amendment No. 2 thereto filed with the Securities and Exchange Commission on February 6, 1992 and March 7, 1992, respectively.

(2) Incorporated by reference to BioTime's Current Report on Form 8-K filed with the Securities and Exchange Commission on January 8, 2013.

*Previously filed.

**Filed herewith.

Item 17. Undertakings.

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers, and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by final adjudication of such issue.

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The undersigned undertakes:

(1) To file during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by section 10(a)(3) of the Securities Act of 1933;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement.;

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

Provided, however, That:

(B) Paragraphs (a)(1)(i), (a)(1)(ii) and (a)(1)(iii) of this section do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the registrant pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

(2) That for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:

(i) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in this Registration Statement; and

(ii) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of

contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date; or

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(5) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:

(i) If the registrant is relying on Rule 430B (§230.430B of this chapter):

(A) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and

(B) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date; or

(ii) If the registrant is subject to Rule 430C, each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such first use, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.

(6) That, for the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities:

The undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

(i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;

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(ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;

(iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and

(iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to section 13(a) or section 15(d) of the Securities Exchange Act of 1934 that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

The undersigned registrant hereby undertakes that:

(1) For purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b) (1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.

(2) For the purpose of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

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SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3, and has duly caused this Amendment to the Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Alameda, State of California on August 21, 2013.

BIOTIME, INC.

By/s/ Michael D. West
 Michael D. West
 Chief Executive Officer

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

Signature	Title	Date
s/ Michael D. West MICHAEL D. WEST	Chief Executive Officer and Director (Principal Executive Officer)	August 21, 2013
s/ Robert W. Peabody ROBERT W. PEABODY	Chief Financial Officer (Principal Financial and Accounting Officer)	August 21, 2013
s/ Franklin M. Berger FRANKLIN M. BERGER	Director	August 21, 2013
s/ Neal C. Bradsher NEAL C. BRADSHER	Director	August 21, 2013
/s/ Stephen C. Farrell STEPHEN C. FARRELL	Director	August 21, 2013
s/ Alfred D. Kingsley ALFRED D. KINGSLEY	Director	August 21, 2013
s/ Pedro Lichtinger PEDRO LICHTINGER	Director	August 21, 2013
s/ Henry L. Nordhoff HENRY L. NORDHOFF	Director	August 21, 2013
s/ Judith Segall JUDITH SEGALL	Director	August 21, 2013
s/ Andrew C. von Eschenbach ANDREW C. von ESCHENBACH	Director	August 21, 2013

