

As filed with the Securities and Exchange Commission on June 23, 2020

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

AMENDMENT NO. 1 TO  
FORM S-1  
REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

**Predictive Oncology Inc.**

(Exact name of registrant as specified in its charter)

**Delaware**  
(State or jurisdiction  
of incorporation or organization)

**3842**  
(Primary Standard Industrial  
Classification Code Number)

**33-1007393**  
(I.R.S. Employer  
Identification No.)

**2915 Commers Drive, Suite 900**  
**Eagan, Minnesota 55121**  
**(651) 389-4800**

(Address and telephone number of registrant's principal executive offices and principal place of business)

**Bob Myers**  
**Chief Financial Officer**  
**Predictive Oncology Inc.**  
**2915 Commers Drive, Suite 900**  
**Eagan, Minnesota 55121**  
**(651) 389-4800**  
(Name, address and telephone number of agent for service)

*Copy to:*  
**Martin R. Rosenbaum, Esq.**  
**Maslon LLP**  
**3300 Wells Fargo Center**  
**90 South 7th Street**  
**Minneapolis, Minnesota 55402**  
**Telephone: (612) 672-8200**  
**Facsimile: (612) 672-8397**

Approximate date of commencement of proposed sale to the public: From time to time on or after the effective date of this Registration Statement.

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

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.

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.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) 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.

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

Large accelerated filer   
Non-accelerated filer

Accelerated filer   
Smaller reporting company

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of Securities Act.

#### CALCULATION OF REGISTRATION FEE

<b>Title of Each Class of Securities to be Registered</b>	<b>Amount to be Registered(1)</b>	<b>Proposed Maximum Offering Price Per Security (1)(2)</b>	<b>Proposed Maximum Aggregate Offering Price</b>	<b>Amount of Registration Fee (2)</b>
Common stock, \$0.01 par value per share	1,738,357	\$1.665	\$2,894,364.41	\$375.69

- (1) Pursuant to Rule 416 under the Securities Act of 1933, as amended, this registration statement shall be deemed to cover additional securities of the same class as the securities covered by this registration statement issued or issuable prior to completion of the distribution of the securities covered by this registration statement as a result of a split of, or a stock dividend on, the registered securities.
- (2) Previously paid.

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.

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 is not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

**PRELIMINARY PROSPECTUS, SUBJECT TO COMPLETION - DATED JUNE 23, 2020**



**PREDICTIVE ONCOLOGY INC.**

**1,738,357 Shares**

**Common Stock**

This prospectus relates to the offer and resale of up to 1,738,357 shares of our common stock, par value \$0.01 per share, by the selling stockholders as listed in the selling stockholders table on page 13 (the "Selling Stockholders"). For more information about the Selling Stockholders, please see the section of this prospectus entitled "Selling Stockholders" beginning on page 13.

The Selling Stockholders may sell any shares offered under this prospectus at fixed prices, prevailing market prices at the time of sale, at varying prices or negotiated prices.

One or more of the Selling Stockholders may be deemed to be "underwriters" within the meaning of the Securities Act of 1933, as amended (the "Securities Act"), in connection with the resale of our common stock, and any broker-dealers or agents that are involved in such resales may be deemed to be "underwriters" within the meaning of the Securities Act in connection therewith. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the shares purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. For more information, please see the section of this prospectus titled "Plan of Distribution" beginning on page 15.

We will not receive any proceeds from the resale of shares of common stock by the Selling Stockholders. We will, however, receive the proceeds of any cash exercises of warrants.

Our common stock is listed on the Nasdaq Capital Market under the symbol "POAI." On June 19, 2020, the last reported per share price of our common stock on the Nasdaq Capital Market was \$1.89 per share.

**Investing in our common stock involves a high degree of risk. Before deciding whether to invest in our securities, you should consider carefully the risks that we have described beginning on page 9 of this prospectus under the caption "Risk Factors" and in the documents incorporated by reference into this prospectus.**

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

The date of this prospectus is \_\_\_\_\_, 20\_\_.

---

## Table of Contents

	<b><u>Page</u></b>
<a href="#"><u>About this Prospectus</u></a>	<a href="#"><u>1</u></a>
<a href="#"><u>The Company</u></a>	<a href="#"><u>2</u></a>
<a href="#"><u>Offering Summary</u></a>	<a href="#"><u>8</u></a>
<a href="#"><u>Risk Factors</u></a>	<a href="#"><u>9</u></a>
<a href="#"><u>Cautionary Note Regarding Forward-Looking Statements</u></a>	<a href="#"><u>9</u></a>
<a href="#"><u>Use of Proceeds</u></a>	<a href="#"><u>10</u></a>
<a href="#"><u>Description of Capital Stock</u></a>	<a href="#"><u>10</u></a>
<a href="#"><u>Selling Stockholders</u></a>	<a href="#"><u>13</u></a>
<a href="#"><u>Plan of Distribution</u></a>	<a href="#"><u>15</u></a>
<a href="#"><u>Legal Matters</u></a>	<a href="#"><u>16</u></a>
<a href="#"><u>Experts</u></a>	<a href="#"><u>16</u></a>
<a href="#"><u>Where You Can Find More Information</u></a>	<a href="#"><u>16</u></a>
<a href="#"><u>Incorporation of Certain Documents by Reference</u></a>	<a href="#"><u>17</u></a>

## ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we have filed with the Securities and Exchange Commission (the “SEC”) pursuant to which the Selling Stockholders named herein may, from time to time, offer and sell or otherwise dispose of the securities covered by this prospectus. You should not assume that the information contained in this prospectus is accurate on any date subsequent to the date set forth on the front cover of this prospectus or that any information we have incorporated by reference is correct on any date subsequent to the date of the document incorporated by reference, even though this prospectus is delivered or securities are sold or otherwise disposed of on a later date. It is important for you to read and consider all information contained in this prospectus, including the Information Incorporated by Reference herein, in making your investment decision. You should also read and consider the information in the documents to which we have referred you under the captions “Where You Can Find More Information” and “Incorporation of Information by Reference” in this prospectus.

Neither we nor the Selling Stockholders have authorized any dealer, salesman or other person to give any information or to make any representation other than those contained or incorporated by reference in this prospectus. You should not rely upon any information or representation not contained or incorporated by reference in this prospectus. This prospectus does not constitute an offer to sell or the solicitation of an offer to buy any of our securities other than the securities covered hereby, nor does this prospectus constitute an offer to sell or the solicitation of an offer to buy any securities in any jurisdiction to any person to whom it is unlawful to make such offer or solicitation in such jurisdiction. Persons who come into possession of this prospectus in jurisdictions outside the United States are required to inform themselves about, and to observe, any restrictions as to the offering and the distribution of this prospectus applicable to those jurisdictions.

We further note that the representations, warranties and covenants made in any agreement that is filed as an exhibit to any document that is incorporated by reference in the prospectus were made solely for the benefit of the parties to such agreement, including, in some cases, for the purpose of allocating risk among the parties to such agreements, and should not be deemed to be a representation, warranty or covenant to you. Moreover, such representations, warranties or covenants were accurate only as of the date when made. Accordingly, such representations, warranties and covenants should not be relied on as accurately representing the current state of our affairs.

Unless the context otherwise requires, references in this prospectus to “Predictive,” the “Company,” “we,” “us,” and “our” refer to Predictive Oncology Inc.

**You should rely only on the information contained or incorporated by reference, as applicable, in this prospectus, any prospectus supplement, or other offering materials related to an offering of securities described in this prospectus. We have not authorized anyone to provide you with different or additional information. If anyone provides you with different or additional information, you should not rely on it.**

**You should not assume that the information contained or incorporated by reference, as applicable, in this prospectus, any prospectus supplement, or other offering materials related to an offering of securities described in this prospectus is accurate as of any date other than the date of that document. Neither the delivery of this prospectus, any prospectus supplement or other offering materials related to an offering of securities described in this prospectus, nor any distribution of securities pursuant to this prospectus, any such prospectus supplement, or other offering materials shall, under any circumstances, create any implication that there has been no change in the information set forth or incorporated by reference, as applicable, in this prospectus, any such prospectus supplement or other offering materials since the date of each such document. Our business, financial condition, results of operations and prospects may have changed since those dates.**

**This prospectus does not constitute, and any prospectus supplement or other offering materials related to an offering of securities described in this prospectus will not constitute, an offer to sell, or a solicitation of an offer to purchase, the offered securities in any jurisdiction to or from any person to whom or from whom it is unlawful to make such offer or solicitation in such jurisdiction.**

---

## THE COMPANY

*This summary contains basic information about us. You should read the entire prospectus carefully, especially the risks of investing in our securities discussed under “Risk Factors.” Some of the statements contained in this prospectus, including statements under this summary and “Risk Factors” are forward-looking statements and may involve a number of risks and uncertainties. We note that our actual results and future events may differ significantly based upon a number of factors. You should not put undue reliance on the forward-looking statements in this document, which speak only as of the date on the cover of this prospectus. References to “we,” “our,” “us,” the “Company,” or “Predictive” refer to Predictive Oncology Inc., a Delaware corporation.*

### **Business Overview**

Predictive Oncology Inc. (NASDAQ: POAI) operates in two primary business areas: first, application of artificial intelligence (“AI”) in our precision medicine business, to provide AI-driven predictive models of tumor drug response to improve clinical outcomes for patients and to assist pharmaceutical, diagnostic, and biotech industries in the development of new personalized drugs and diagnostics; and second, production of the United States Food and Drug Administration (“FDA”)-cleared STREAMWAY® System for automated, direct-to-drain medical fluid disposal and associated products.

We have three operating segments: domestic, international, and Helomics. Domestic and international consist of the STREAMWAY System product sales. The Helomics segment consists of clinical testing and contract research. Our TumorGenesis subsidiary is included within corporate. Going forward, we have determined that we will focus our resources on the Helomics segment and our primary mission of applying AI to precision medicine and drug discovery.

### **Precision Medicine Business**

Our precision medicine business, conducted in our Helomics division, is committed to improving the effectiveness of cancer therapy using our proprietary, multi-omic tumor profiling platform, one-of-a-kind database of historical tumor data, and the power of AI to build predictive models of tumor drug response.

Helomics’ mission is to improve clinical outcomes for patients by partnering with pharmaceutical, diagnostic, and academic organizations to bring innovative clinical products and technologies to the marketplace. In addition to our proprietary patient-derived (“PDx”) tumor profiling platform for oncology, Helomics offers: 1) data and AI driven contract research organization (“CRO”) services for clinical and translational research that leverage PDx tumor models, 2) a wide range of multi-omics assays (genomics, proteomics, and biochemical), and 3) AI driven predictive models to drive the discovery of targeted therapies.

#### *Contract Research Organization (CRO) and AI-Driven Business*

We believe leveraging our unique, historical database of the drug responses of over 150,000 patient tumors to build AI and data-driven multi-omic predictive models of tumor drug response and outcome will provide actionable insights critical to both new drug development and individualizing patient treatment. Our large historical database of tumors and related data, plus our ability to obtain the associated patient outcome data is a significant competitive advantage. Cancer treatments require at least 5 years of testing to provide sufficient information on progression-free survival rates. While competitors must wait for this data, we can leverage it today. These AI-driven predictive models, coupled with the PDx platform will create a unique service to drive revenue generating projects with pharma, diagnostic and biotech companies in areas such as biomarker discovery, drug screening, drug repurposing, and clinical trials. The AI-driven models will, once validated, also provide clinical decision support to help oncologists individualize treatment.

Our CRO/AI business is committed to improving the process of targeted therapy discovery. Our proprietary, TruTumor multi-omic PDx profiling and AI platform coupled to our vast multi-omic database of biochemical and clinical information on patients with cancer, uses deep learning to understand the association between the mutational profile of a patient’s tumor and the drug response profile of the tumor that is grown in the lab. This approach is used to build an AI-driven predictive model that offers actionable insights of which mutations in the tumor are associated with drugs to which the tumor is sensitive and which will lead to the optimal outcome for the patient.

Our CRO services business applies these AI-driven predictive models coupled with our unique proprietary TruTumor PDx model to address a range of needs from discovery through clinical and translational research, to clinical trials and diagnostic development and validation as noted below:

**Research**

- Biomarker discovery
- Drug discovery
- Drug-repurposing

**Development**

- Patient enrichment & selection for trials
- Clinical trial optimization
- Adaptive trials

**Clinical Decision Support**

- Patient stratification
- Treatment selection

We believe this market segment has significant growth potential and we believe we are differentiated from traditional CRO's and other precision medicine and AI companies through these unique assets:

- clinically validated PDx platform;
- database of over 150,000 tumor cases;
- experienced AI team and AI platform;
- ability to access outcome data going back over ten years for over 120,000 of the tumor cases in our database.

*Industry and Market Background and Analysis – Precision Medicine Business*

Precision medicine is an emerging approach for disease treatment and prevention that considers individual variability in genes, disease, environment, and lifestyle for each case to develop effective therapies. This approach allows doctors and researchers to predict more accurately which treatment, dose, and therapeutic regimen could provide the best possible outcome. The global precision medicine market is estimated to reach \$141.7 billion by 2026, up from \$43.6 billion in 2016. This growth is supported by the industry's investment in precision medicine, with leading biopharmaceutical companies doubling their investments in the technology over the last five years, with the potential to increase by an additional 33% over the next five years (Source: BIS Research's Global Precision Medicine Market to Reach \$141.70 Billion by 2026, December 2017).

Over the past several decades, researchers have identified molecular patterns that are useful in defining the prognosis of a given cancer, determining the appropriate treatments, and designing targeted treatments to address specific molecular alterations. The objective of precision medicine as directed towards cancer therapy is to develop treatments tailored to the genetic changes in each person's cancer, intended to improve the effectiveness of the therapeutic regimen and minimize the treatment's effects on healthy cells. However, for a majority of patients the reality is that while many mutations in the patient's tumor can be identified most are not actionable with current protocols. As a result, the impact of targeted therapies is low, and uptake in clinical practice is inconsistent.

There is now a growing realization that genomics alone will not be enough to achieve the promise of personalized therapeutics, especially for cancer. A multi-omic approach (e.g. assessing the genome, transcriptome, epigenome, proteome, responseome, and microbiome) provides researchers and clinicians the comprehensive information necessary for new drug development and individualized therapy. Comparatively, the multi-omic approach provides a three-dimensional, 360-degree view of the cancer, while genomics alone is just a flat, one-dimensional view. However, multi-omic data is difficult to access quickly as it is both costly and time consuming to initiate prospective data collection, and few comprehensive, multi-omic datasets exist, especially specific to cancer.

## *Clinical Testing*

Via our Helomics subsidiary, we offer a group of clinically relevant, cancer-related tumor profiling and biomarker tests for gynecological cancers that determine how likely the patient is to respond to various types of chemotherapy and which therapies might be indicated by relevant tumor biomarkers.

Clinical testing is comprised of ChemoFx and BioSpeciFx tests. The ChemoFx test determines how a patient's tumor specimen responds to a panel of various chemotherapy drugs, while the BioSpeciFx test evaluates the expression of a specific genes, or biomarkers, in the patient's tumor. Our proprietary TruTumor™ PDx tumor platform provides us with the ability to work with actual live tumor cells to study the unique biology of the patient's tumor in order to understand how the patient responds to treatment.

Testing involves obtaining tumor tissue during biopsy or surgery which is then sent to our Clinical Laboratory Improvement Amendments ("CLIA") certified laboratory using a special collection kit. Two samples of the tumor tissue are obtained, fixed and live. The fixed tumor tissue is tested for a panel of biomarkers using a combination of Immunohistochemistry and Quantitative Polymerase Chain Reactions. The live tumor tissue is grown in the lab and used to test the drug response of the tumor to a panel of standard-of-care drugs. When testing is complete a report is provided back to the clinician with recommended therapies based on the drug response and biomarker profiles. Helomics integrates the drug response with other genomic and molecular data and compares it with historical data in our database to generate a roadmap that provides additional context to help the oncologist personalize patient treatment.

## *Recently Completed Acquisitions*

In May 2020, the Company acquired the businesses of Soluble Therapeutics, Inc. and BioDtech, Inc. via the purchase of substantially all of their assets. The Soluble Therapeutics business offers services to pharmaceutical and biotech companies to screen proteins for both solubility and stability, with possible applications to vaccines, antibodies and other proteins used in disease treatment. The acquired technologies also specialize in removing, identifying, and isolating endotoxins from products that are used by researchers to culture cells and to help identify endotoxins that maybe hidden within a protective matrix.

## *Business Strategy for Precision Medicine Business*

We are a data and AI-driven discovery services company that provides AI-driven predictive models of tumor drug response to improve clinical outcomes for patients by leveraging our two primary unique assets:

- A clinically validated PDx tumor profiling platform, TruTumor, that can generate drug response profiles and other multi-omic data. Over \$200 million has been invested in this platform and was clinically validated in ovarian cancer.
- Data on the drug response profiles of over 150,000 tumors across 137 cancer types tested using the PDx platform in over 10+ years of clinical testing. We call this database TumorSpace™.

Over 38,000 of the more than 150,000 clinically validated cases in our TumorSpace™ database are specific to ovarian cancer. The data in TumorSpace is highly differentiated, having both drug response data, biomarkers and access to historical outcome data from those patient samples. We intend to generate additional data (genomics and transcriptomics) from these tumor samples to deliver a multi-omic approach to the pharmaceutical industry. Through our Helomics subsidiary, we will utilize both this historical data and the PDx platform to build AI-driven predictive models of tumor drug response and outcome through our CancerQuest 2020 ("CCQ2020") initiative, which is still ongoing. Once validated, we will commercialize these AI-driven predictive models in revenue generating service projects with pharmaceutical, biotech, and diagnostic companies.

A key part of our commercialization strategy for the CCQ2020 initiative is the understanding that our AI-driven models of tumor drug response serves a key unmet need of pharmaceutical, diagnostic, and biotech industries for actionable multi-omic insights on cancer. In collaboration with these companies, using the predictive models, we will accelerate the search for more individualized and effective cancer treatments, through revenue generating projects in biomarker discovery, drug screening, drug repurposing, and clinical trials.

Our commercial strategy has identified a portfolio of revenue generating project types that leverage the predictive models, our AI expertise, PDx tumor profiling, and CLIA laboratory to provide custom solutions utilizing our full array of assets and expertise.

The CCQ2020 initiative will focus initially on ovarian cancer, which is where we have the most expertise, samples, data, and access to outcomes. However, we intend to expand the initiative to include cancers of the lung, breast, colon, and prostate, and will actively seek partners to assist in that effort.

Within the clinical sector, we will utilize these predictive models (once validated) for new clinical decision support tools for individualizing therapy for patients with cancer. These clinical decision support tools are a longer revenue horizon than the research projects with pharmaceutical companies but, importantly, will provide a steady stream of additional data generation to refine the predictive models for both clinical and research applications.

### **Skyline Medical – The STREAMWAY System**

Sold through our subsidiary, Skyline Medical, Inc (“Skyline Medical”), the STREAMWAY System virtually eliminates staff exposure to blood, irrigation fluid and other potentially infectious fluids found in the healthcare environment. Antiquated manual fluid handling methods that require hand carrying and emptying filled fluid canisters present both an exposure risk and potential liability. Skyline Medical’s STREAMWAY System fully automates the collection, measurement, and disposal of waste fluids and is designed to: 1) reduce overhead costs to hospitals and surgical centers; 2) improve compliance with the Occupational Safety and Health Administration (“OSHA”) and other regulatory agency safety guidelines; 3) improve efficiency in the operating room and radiology and endoscopy departments, thereby leading to greater profitability; and 4) provide greater environmental stewardship by helping to eliminate the approximately 50 million potentially disease-infected canisters that go into landfills each year in the United States.

In December 2019, we announced that we had received indications of interest from several parties for the possible acquisition of our Skyline Medical division, and we reaffirmed that we are focusing our resources on our precision medicine business. We continue to operate the Skyline Medical business with a focus on maximizing our strategic opportunities with respect to this division. As of the date of this Registration Statement, we have no definitive agreement in place.

### *Industry and Market Background and Analysis - Infectious and Bio-hazardous Waste Management*

There has long been recognition of the collective potential for ill effects to healthcare workers from exposure to infectious/bio-hazardous materials. Federal and state regulatory agencies have issued mandatory guidelines for the control of such materials, and in particular, bloodborne pathogens. OSHA’s Bloodborne Pathogens Standard (29 CFR 1910.1030) requires employers to adopt engineering and work practice controls that would eliminate or minimize employee exposure from hazards associated with bloodborne pathogens. In 2001, in response to the Needlestick Safety and Prevention Act, OSHA revised the Bloodborne Pathogens Standard. The revised standard clarifies and emphasizes the need for employers to select safer needle devices and to involve employees in identifying and choosing these devices. The revised standard also calls for the use of “automated controls” as it pertains to the minimization of healthcare exposure to bloodborne pathogens.

Most surgical procedures produce potentially infectious materials that must be disposed with the lowest possible risk of cross-contamination to healthcare workers. Current standards of care allow for these fluids to be retained in canisters and located in the operating room where they can be monitored throughout the surgical procedure. Once the procedure is complete these canisters and their contents are disposed using a variety of methods, all of which include manual handling and result in a heightened risk to healthcare workers for exposure to their contents. Canisters are the most prevalent means of collecting and disposing of infectious fluids in hospitals today. Traditional, non-powered canisters and related suction and fluid disposable products are exempt and do not require FDA clearance.

We believe that our virtually hands free direct-to-drain technology (1) significantly reduces the risk of healthcare worker exposure to these infectious fluids by replacing canisters, (2) further reduces the risk of worker exposure when compared to powered canister technology that requires transport to and from the operating room, (3) reduces the cost per procedure for handling these fluids, and (4) enhances the surgical team’s ability to collect data to accurately assess the patient’s status during and after procedures. In addition to the traditional canister method of waste fluid disposal, several other powered medical devices have been developed that address some of the deficiencies described above. Most of these competing products continue to utilize some variation on the existing canister technology, and while not directly addressing the canister, most have been successful in eliminating the need for an expensive gel and its associated handling and disposal costs. Our existing competitors with products already on the market have a clear competitive advantage over us in terms of brand recognition and market exposure. In addition, many of our competitors have extensive marketing and development budgets that could overpower an emerging growth company like ours.

We expect the hospital surgery market to continue to increase due to population growth, the aging of the population, and expansion of surgical procedures to new areas (for example, use of the endoscope) which requires more fluid management and new medical technology.

### **STREAMWAY System Product Sales**

Our domestic and international segments consist primarily of sales of the STREAMWAY System, as well as sales of the proprietary cleaning fluid and filters for use with the STREAMWAY System. We manufacture an environmentally conscious system for the collection and disposal of infectious fluids resulting from surgical and other medical procedures. We have been granted patents for the STREAMWAY System in the United States, Canada, and Europe. We distribute our products to medical facilities where bodily and irrigation fluids produced during medical procedures must be contained, measured, documented, and disposed. Our products minimize the exposure potential to the healthcare workers who handle such fluids. In addition to simplifying the handling of these fluids, our goal is to create products that dramatically reduce staff exposure without significant changes to established operative procedures, historically a major industry stumbling block to innovation and product introduction.

The STREAMWAY System is a wall-mounted fully automated system that disposes of an unlimited amount of suction fluid providing uninterrupted performance for physicians while virtually eliminating healthcare workers' exposure to potentially infectious fluids collected during surgical and other patient procedures. The STREAMWAY System also provides an innovative way to dispose of ascites and pleural fluid with no evac bottles, suction canisters, transport, or risk of exposure. We also manufacture and sell two disposable products required for the operation of the STREAMWAY System: a bifurcated dual port procedure filter with tissue trap and a single use bottle of cleaning solution. Both items are utilized on a single procedure basis and must be discarded after use. The STREAMWAY disposables are a critical component of our business model. Recurring revenues from the sale of the disposables are expected to be significantly higher over time than the revenues from the initial sale of the unit. We have exclusive distribution rights to the disposable solution.

We sell our medical device products directly to hospitals and other medical facilities using employed sales representatives, independent contractors and distributors.

### **TumorGenesis Division**

Our subsidiary, TumorGenesis, is pursuing a new rapid approach to growing tumors in the laboratory, which essentially "fools" the cancer cells into thinking they are still growing inside the patient. We have also announced a proposed joint venture with GLG Pharma focused on using their combined technologies to bring personalized medicines and testing to ovarian and breast cancer patients, especially those who present with ascites fluid (over one-third of patients).

### **Ability to Continue as a Going Concern**

We have suffered recurring losses from operations, and we have significant debt repayment obligations that are due within the current year. Although we have been able to fund our current working capital requirements, principally through debt and equity financing, there is no assurance that we will be able to do so in the future. As a result of our capital needs for operations and debt repayment, we need to raise significant capital, and there is no assurance that we will be successful in raising sufficient capital. As a result management has substantial doubt about our ability to continue as a going concern.

## **Corporate Information**

We were originally incorporated on April 23, 2002 and reincorporated in Delaware in 2013. We changed our name from Skyline Medical, Inc. to Precision Therapeutics, Inc. on February 1, 2018 and to Predictive Oncology, Inc. on June 13, 2019.

Our address is 2915 Commers Drive, Suite 900, Eagan, Minnesota 55121. Our telephone number is (651) 389-4800, and our website address is [www.predictive-oncology.com](http://www.predictive-oncology.com). The information contained on, or that can be accessed through, our website is not part of this prospectus.

## **Description of the Private Placements**

### ***Securities Purchase Agreement and Registration Rights Agreement***

On May 6, 2020, the Company, entered into a Securities Purchase Agreement, dated May 6, 2020 (the “Agreement”) with two institutional and accredited investors pursuant to which the Company agreed to issue and sell in a registered direct offering (the “Offering”) an aggregate of 1,396,826 shares (the “Shares”) of its common stock, at a purchase price of \$1.575 per share, for gross proceeds of approximately \$2.2 million. Predictive Oncology also agreed to issue to the investors unregistered warrants to purchase up to an aggregate of 1,396,826 shares of common stock in a concurrent private placement (the “Warrant Placement”). The warrants have an exercise price equal to \$1.45 per share, are exercisable immediately upon issuance and expire five and one-half years from the issuance date. The Offering and the Warrant Placement were completed on May 8, 2020.

Pursuant to an Engagement Letter (the “Engagement Letter”) with H.C. Wainwright & Co., LLC (the “Placement Agent”), the Company agreed to pay the Placement Agent a cash fee equal to 7.5% of the gross proceeds received in the Offering. The Company also agreed to reimburse the Placement Agent for its expenses in connection with this offering, up to \$40,000, and agreed to reimburse the placement agent for non-accountable expenses in the amount of \$25,000. The Engagement Letter contains indemnification, representations, warranties, conditions precedent to closing and other provisions customary for transactions of this nature.

Also pursuant to the Engagement Letter, the Company, in connection with the Offering, agreed to grant the Placement Agent or its assigns warrants to purchase up to an aggregate of 104,762 shares of its common stock (which represents 7.5% of the Shares sold to investors in the offering) at an exercise price equal to 125% of the public offering price of the Shares in the offering, or \$1.9688. These warrants shall expire on May 6, 2025.

The Company used \$487,000 of the net proceeds from the offering to repay certain indebtedness to Oasis Capital, LLC, and will use the remainder for working capital purposes.

### ***Series E Convertible Preferred Stock Offering***

On June 13, 2019, the Company filed with the Secretary of State of the State of Delaware a Certificate of Designation of Preferences, Rights and Limitations of Series E Convertible Preferred Stock, par value \$0.01 per share (the “Series E Stock”) and began a private placement of the Series E Stock. The rights and preferences of the Series E Stock, including the terms under which the Series E Stock is convertible into the Company’s common stock, are described in the Form 8-K filed by the Company on June 19, 2019. Pursuant to the securities purchase agreement, the investors have certain piggyback registration rights covering the shares of common stock issuable upon conversion of the Series E Stock with respect to certain registration statements filed by the Company, including the one of which this prospectus forms a part. The Company sold and issued 257.7 shares of Series E Stock, of which 207.7 shares are currently outstanding. Each share of Series E Stock is convertible into 0.056857% of the Company’s outstanding shares of common stock on the date of conversion. The shares became convertible at the option of the holder commencing on December 13, 2019. Based on the 3,925,007 shares of the Company’s common stock outstanding as of December 3, 2019, each share of Series E Stock would have been convertible into 2,232 shares of common stock, and the shares of Series E Stock in the aggregate would be convertible into 575,186 shares of common stock. The Company filed a Registration Statement on Form S-3, which was initially filed on December 10, 2019, and amended on December 19, 2019 and which was declared effective by the SEC on December 20, 2019 (Registration No. 333-235441) and a prospectus supplement filed by the Company on December 23, 2019. The conversion of the Series E Stock was originally subject to limitations under certain share caps; however, at a special meeting of stockholders held on October 23, 2019, the stockholders voted to approve the issuance of shares in excess of the applicable share caps.

On May 28, 2020, the Company sent Notices of Conversion to all holders of the Series E. Stock. Based upon 10,648,195 shares that were outstanding as of June 12, 2020, each share of Series E Stock was converted into 6,054 shares of common stock. Additional shares upon conversion of Series E Stock not previously registered are included in this prospectus. For additional information, see “Selling Stockholders” table on page 13

#### OFFERING SUMMARY

Common stock that may be offered by Selling Stockholders	1,738,357 shares
Common stock outstanding before this offering	11,905,649 shares (1)
Common stock to be outstanding after this offering	13,302,475 shares (2)
Use of proceeds	<p>We will not receive any proceeds from the resale or other disposition of the shares covered by this prospectus by the Selling Stockholders or from the conversion of Series E Stock to common stock. We will receive proceeds from the exercise of warrants by certain of the Selling Stockholders.</p> <p>For further information, see “Description of the Private Placements” beginning on page 7</p>
Plan of Distribution	<p>The Selling Stockholders may, from time to time, sell any or all of their shares of our common stock on the stock exchange, market or trading facility on which the shares are traded or in private transactions. These sales may be at fixed or negotiated prices.</p> <p>For further information, see “Plan of Distribution” beginning on page 15</p>
Risk factors	<p>You should read the “Risk Factors” section of this prospectus and the other information in this prospectus for a discussion of factors to consider carefully before deciding to invest in shares of our common stock.</p>

- (1) The number of shares of our common stock issued and outstanding as of June 19, 2020.
- (2) Assumes the issuance of 1,396,826 shares upon exercise of the warrants issued in the Warrant Placement and offered under this prospectus.

## RISK FACTORS

An investment in our securities involves a number of risks. Before deciding to invest in our securities, you should carefully consider the risks described below and discussed under the section captioned “Risk Factors” contained in our Annual Report on Form 10-K for the year ended December 31, 2019, and our Quarterly Report on Form 10-Q for the quarter ended March 31, 2020, which are incorporated by reference in this prospectus, the information and documents incorporated by reference herein, and in any prospectus supplement or free writing prospectus that we have authorized for use in connection with an offering. If any of these risks actually occurs, our business, financial condition, results of operations or cash flow could be harmed. This could cause the trading price of our common stock to decline, resulting in a loss of all or part of your investment. The risks described in the documents referenced above are not the only ones that we face. Additional risks not presently known to us or that we currently deem immaterial may also affect our business.

### CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

Some of the statements made in this prospectus are “forward-looking statements” that indicate certain risks and uncertainties related to the Company, many of which are beyond the Company’s control. The Company’s actual results could differ materially and adversely from those anticipated in such forward-looking statements as a result of certain factors, including those set forth below and elsewhere in this report. Important factors that may cause actual results to differ from projections include:

- We may not be able to continue operating without additional financing;
- Current negative operating cash flows;
- The terms of any further financing, which may be highly dilutive and may include onerous terms;
- Risks related to the 2019 merger with Helomics including: 1) significant goodwill could result in further impairment; 2) possible failure to realize anticipated benefits of the merger; 3) costs associated with the merger may be higher than expected; 4) the merger may result in the disruption of our existing businesses; and 5) distraction of management and diversion of resources;
- Risks related to our partnerships with other companies, including the need to negotiate the definitive agreements; possible failure to realize anticipated benefits of these partnerships; and costs of providing funding to our partner companies, which may never be repaid or provide anticipated returns;
- Risks related to the transaction with Quantitative Medicine including: 1) completion of the transaction; 2) possible failure to realize anticipated benefits of the merger; 3) costs associated with the merger may be higher than expected; 4) the merger may result in the disruption of our existing businesses; and 5) distraction of management and diversion of resources;
- Risk that we will be unable to protect our intellectual property or claims that we are infringing on others’ intellectual property;
- The impact of competition;
- Acquisition and maintenance of any necessary regulatory clearances applicable to applications of our technology;
- Inability to attract or retain qualified senior management personnel, including sales and marketing personnel;
- Risk that we never become profitable if our product is not accepted by potential customers;
- Possible impact of government regulation and scrutiny;

In some cases, you can identify forward-looking statements by terms such as “may”, “will”, “should”, “could”, “would”, “expects”, “plans”, “anticipates”, “believes”, “estimates”, “projects”, “predicts”, “potential” and similar expressions intended to identify forward-looking statements. These statements reflect our current views with respect to future events and are based on assumptions and subject to risks and uncertainties. Given these uncertainties, you should not place undue reliance on these forward-looking statements. We discuss many of these risks in greater detail under the heading “Risk Factors” beginning on page 9 of this prospectus and in our SEC filings. Also, these forward-looking statements represent our estimates and assumptions only as of the date of the document containing the applicable statement.

You should read this prospectus, the documents we have filed with the SEC that are incorporated by reference and any free writing prospectus that we have authorized for use in connection with this offering completely and with the understanding that our actual future results may be materially different from what we expect. We qualify all of the forward-looking statements in the foregoing documents by these cautionary statements.

Information regarding market and industry statistics contained in this prospectus is included based on information available to the Company that it believes is accurate. It is generally based on academic and other publications that are not produced for purposes of securities offerings or economic analysis. The Company has not reviewed or included data from all sources, and the Company cannot assure potential investors of the accuracy or completeness of the data included in this prospectus. Forecasts and other forward-looking information obtained from these sources are subject to the same qualifications and the additional uncertainties accompanying any estimates of future market size, revenue and market acceptance of products and services. The Company has no obligation to update forward-looking information to reflect actual results or changes in assumptions or other factors that could affect those statements.

#### **USE OF PROCEEDS**

We will not receive any proceeds from the sale of the shares of our common stock by the Selling Stockholders. However, we will receive proceeds from the exercise, if any, of the Warrants issued to the Selling Stockholders pursuant to the Securities Purchase Agreement. We will use these proceeds for general corporate and working capital purposes, or for other purposes that our board of directors, in its good faith, deems to be in the best interest of our Company. We have agreed to bear the expenses relating to the registration of the offer and resale by the Selling Stockholders of the shares being offered hereby.

#### **DESCRIPTION OF CAPITAL STOCK**

The following description summarizes the material terms of our capital stock. This summary is, however, subject to the provisions of our certificate of incorporation and bylaws. For greater detail about our capital stock, please refer to our certificate of incorporation and bylaws.

##### **General**

Our authorized capital stock consists of 100,000,000 shares of Common Stock, and 20,000,000 shares of preferred stock, \$0.01 par value per share ("Preferred Stock"). Out of the Preferred Stock, as of June 19, 2020, 2,300,000 shares have been designated Series B Convertible Preferred Stock, of which 79,246 shares were outstanding.

The outstanding shares of our Common Stock and Preferred Stock are fully paid and nonassessable.

The Series B Convertible Preferred Stock is convertible into Common Stock at the option of its holders on a 1:1 basis, subject to a 4.99% beneficial ownership blocker. Each share of Series E Convertible Preferred Stock is convertible at the option of its holder into 0.056857% of the shares of Common Stock issued and outstanding immediately prior to giving effect to such conversion, subject to a 19.99% beneficial ownership blocker.

On June 13, 2020, the Company converted 207.7 outstanding shares of Series E Convertible Preferred Stock into 1,257,454 shares of Common Stock.

Our Board of Directors is authorized, subject to any limitations prescribed by law, to provide for the issuance of the shares of Preferred Stock in series and, by filing a certificate pursuant to the applicable law of the State of Delaware, to establish from time to time the number of shares to be included in each such series, and to fix the designation, powers, preferences and rights of the shares of each such series and any qualifications, limitations or restrictions thereon. The number of authorized shares of Preferred Stock may be increased or decreased (but not below the number of shares thereof then outstanding) by the affirmative vote of the holders of a majority of the outstanding shares of Common Stock without a vote of the holders of the Preferred Stock, or of any series thereof, unless a vote of any such holders is required pursuant to the certificate or certificates establishing the series of Preferred Stock.

## **Common Stock**

As of June 19, 2020, we had 11,905,649 shares of common stock outstanding held by approximately 165 stockholders of record.

**Voting Rights.** The holders of our Common Stock are entitled to one vote for each outstanding share of Common Stock owned by that shareholder on every matter properly submitted to the shareholders for their vote. Shareholders are not entitled to vote cumulatively for the election of directors.

**Dividend Rights.** Subject to the dividend rights of the holders of any outstanding series of preferred stock, holders of our Common Stock are entitled to receive ratably such dividends and other distributions of cash or any other right or property as may be declared by our Board of Directors out of our assets or funds legally available for such dividends or distributions.

**Liquidation Rights.** In the event of any voluntary or involuntary liquidation, dissolution or winding up of our affairs, holders of our Common Stock would be entitled to share ratably in our assets that are legally available for distribution to shareholders after payment of liabilities and after the satisfaction of any liquidation preference owed to the holders of any Preferred Stock.

**Conversion, Redemption and Preemptive Rights.** Holders of our Common Stock have no conversion, redemption, preemptive, subscription or similar rights.

## **Anti-Takeover Provisions**

**Bylaws.** Certain provisions of our Bylaws could have anti-takeover effects. These provisions are intended to enhance the likelihood of continuity and stability in the composition of our corporate policies formulated by our Board of Directors. In addition, these provisions also are intended to ensure that our Board of Directors will have sufficient time to act in what our Board of Directors believes to be in the best interests of our Company and our shareholders. Nevertheless, these provisions could delay or frustrate the removal of incumbent directors or the assumption of control of us by the holder of a large block of Common Stock, and could also discourage or make more difficult a merger, tender offer, or proxy contest, even if such event would be favorable to the interest of our shareholders. These provisions are summarized below.

***Advance Notice Provisions for Raising Business or Nominating Directors.*** Sections 2.09 and 2.10 of our Bylaws contain advance-notice provisions relating to the ability of shareholders to raise business at a shareholder meeting and make nominations for directors to serve on our Board of Directors. These advance-notice provisions generally require shareholders to raise business within a specified period of time prior to a meeting in order for the business to be properly brought before the meeting.

***Number of Directors and Vacancies.*** Our Bylaws provide that the exact number of directors shall be determined from time to time solely by resolution adopted by the affirmative vote of a majority of the entire Board of Directors. The Board of Directors is divided into three classes, as nearly equal in number as possible, designated: Class I, Class II and Class III (each, a "Class"). In the case of any increase or decrease, from time to time, in the number of directors, the number of directors in each class shall be apportioned as nearly equal as possible. Except as otherwise provided in the Certificate of Incorporation, each director serves for a term ending on the date of the third annual meeting of the Company's stockholders following the annual meeting at which such director was elected; provided, that the term of each director shall continue until the election and qualification of a successor and be subject to such director's earlier death, resignation or removal. Vacancies on the Board of Directors resulting from death, resignation, removal or otherwise and newly created directorships resulting from any increase in the number of directors may be filled solely by a majority of the directors then in office (although less than a quorum) or by the sole remaining director.

Delaware Law. We are subject to Section 203 of the Delaware General Corporation Law. This provision generally prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years following the date the stockholder became an interested stockholder, unless:

- prior to such date, the board of directors approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder;
- upon consummation of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding for purposes of determining the number of shares outstanding those shares owned by persons who are directors and also officers and by employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or
- on or subsequent to such date, the business combination is approved by the board of directors and authorized at an annual meeting or special meeting of stockholders and not by written consent, by the affirmative vote of at least 66 2/3% of the outstanding voting stock that is not owned by the interested stockholder.

Section 203 defines a business combination to include:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, transfer, pledge or other disposition of 10% or more of the assets of the corporation involving the interested stockholder;
- subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;
- any transaction involving the corporation that has the effect of increasing the proportionate share of the stock of any class or series of the corporation beneficially owned by the interested stockholder; or
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation.

In general, Section 203 defines an “interested stockholder” as any entity or person beneficially owning 15% or more of the outstanding voting stock of a corporation, or an affiliate or associate of the corporation and was the owner of 15% or more of the outstanding voting stock of a corporation at any time within three years prior to the time of determination of interested stockholder status; and any entity or person affiliated with or controlling or controlled by such entity or person.

These statutory provisions could delay or frustrate the removal of incumbent directors or a change in control of our company. They could also discourage, impede, or prevent a merger, tender offer, or proxy contest, even if such event would be favorable to the interests of stockholders. In addition, note that while Delaware law permits companies to opt out of its business combination statute, our Certificate of Incorporation does not include this opt-out provision.

#### **Transfer Agent and Registrar**

The transfer agent and registrar for our common stock is Corporate Stock Transfer, Inc.

#### **Listing**

The shares of our common stock are listed on The Nasdaq Capital Market under the symbol “POAI.” On June 19, 2020, the last reported sale price per share for our common stock as reported by The Nasdaq Capital Market was \$1.89.

## SELLING STOCKHOLDERS

This prospectus covers the resale by the Selling Stockholders or its permitted transferees of up to 1,738,357 shares that have been or may be issued by us to the Selling Stockholders under the arrangements and agreements described in “Prospectus Summary – Description of the Private Placements.” The Selling Stockholders have not had any position or office, or other material relationship with us or any of our affiliates over the past three years. The following table sets forth certain information regarding the beneficial ownership of shares of common stock by the Selling Stockholders as of June 15, 2020 and the number of shares of our common stock being offered pursuant to this prospectus.

The table below (i) lists the Selling Stockholders and other information regarding the beneficial ownership of our common stock by the Selling stockholder; (ii) have been prepared based upon information furnished to us by the selling stockholder; and (iii) to our knowledge, is accurate as of the date of this prospectus. The Selling Stockholders may sell all, some or none of their shares in this offering. The Selling Stockholders identified in the table below may have sold, transferred or otherwise disposed of some or all of its shares since the date of this prospectus in transactions exempt from or not subject to the registration requirements of the Securities Act. Information concerning the Selling Stockholders may change from time to time and, if necessary, we will amend or supplement this prospectus accordingly and as required.

Name of selling stockholder	Shares beneficially owned as of the date of this prospectus <sup>(1)</sup>	Number of shares being offered	Number of shares to be beneficially owned and percentage of beneficial ownership after the offering <sup>(1)(2)</sup>	
			Number of shares	Percentage of class <sup>(3)</sup>
Armistice Capital Master Fund	2,584,317 <sup>(4)</sup>	698,413 <sup>(5)</sup>	1,885,904	4.99%
Sabby Volatility Warrant Master Fund, Ltd. Series E Holders <sup>(7)</sup>	2,121,642 <sup>(6)</sup>	698,413 <sup>(5)</sup>	1,423,229	4.99%
Andrei Osinsky & Ekna Yakimora, JTWROS	90,813	23,853	66,960	*
Andrew William McAlpine	34,471	7,951	26,520	*
Beth Michele Dryden <sup>(8)</sup>	389,472	52,000	337,472	2.8%
Charles F Mueller and Michele Mueller, JTWROS <sup>(9)</sup>	59,869	7,951	51,918	*
Christopher Moore	31,361	8,041	23,320	*
CL Anderson & Assoc. Profit Sharing Plan	46,012	12,086	33,926	*
Daniel Gregory Gittsovich	15,135	3,975	11,160	*
David Olshansky <sup>(10)</sup>	66,842	15,902	50,940	*
Dean H. Welle and Paula A. Welle JTWROS <sup>(11)</sup>	68,410	4,770	63,640	*
Donald S. Wegner <sup>(12)</sup>	105,961	15,902	90,059	*
Dram Investments LP <sup>(13)</sup>	135,997	7,951	128,046	1.0%
Francis M. Chan Living Trust Dtd. 1/15/15 <sup>(14)</sup>	48,796	4,293	44,503	*
INTL FCStone Financial, Inc. c/f David Hawks R/O IRA <sup>(15)</sup>	80,140	7,951	72,189	*
INTL FCStone Financial, Inc. c/f Lyudmila Gittsovich Roth R/O IRA	10,292	2,703	7,589	*

INTL FCStone Financial, Inc. c/f Nazim Lokhandwala R/O IRA <sup>(16)</sup>	29,441	3,975	25,466	*
INTL FCStone Financial, Inc. c/f Stephen Troutman R/O IRA	62,342	15,902	46,440	*
INTL FCStone Financial, Inc. c/f Vitaly Shtulman R/O IRA	15,135	15,135	0	0
James Lucey	31,771	7,951	23,820	*
Jordan Family LLC <sup>(17)</sup>	217,237	14,947	202,290	1.7%
Kenneth J. Stemper	188,158	31,804	156,354	1.3%
Michael S. Brodherson, M.D. <sup>(18)</sup>	94,444	11,926	82,518	*
Paul David Crain <sup>(19)</sup>	100,586	11,291	89,295	*
Paul Sallwasser and Teri Sallwasser JTWROS <sup>(20)</sup>	278,913	31,804	247,109	2.1%
Rajiv Dewan	24,216	6,360	17,856	*
T & I Limited <sup>(21)</sup>	84,197	7,951	76,246	*
Todd O. Loudin	32,944	7,156	25,788	*

\* Less than 1%

- (1) Beneficial ownership is determined in accordance with SEC rules and generally includes voting or investment power with respect to shares of common stock. Shares of common stock subject to options and warrants currently exercisable, or exercisable within 60 days, are counted as outstanding for computing the percentage of the person holding such options or warrants but are not counted as outstanding for computing the percentage of any other person. Substantially all of the warrants and convertible securities included in the table are subject to restrictions that prevent exercise to the extent that after the exercise the holder or its affiliates would beneficially own in excess of 4.99% of the Company's outstanding stock.
- (2) The amount and percentage of shares of our common stock that will be beneficially owned by the Selling Stockholders after completion of the offering assume that they will sell all shares of our common stock being offered pursuant to this prospectus.
- (3) Based on 11,905,649 shares of our common stock issued and outstanding as of June 19, 2020. All shares of our common stock being offered pursuant to this prospectus by a Selling Stockholder are counted as outstanding for computing the percentage beneficial ownership of such Selling Stockholder.
- (4) Includes 1,885,904 shares issuable upon exercise of warrants. Such warrants are subject to restrictions that prevent exercise to the extent that after the exercise the holder or its affiliates would beneficially own in excess of 4.99% of the Company's outstanding stock. Armistice Capital, LLC, the investment manager to Armistice, and Steven Boyd, the managing member of Armistice Capital, LLC, may be deemed to have shared voting and investment power with respect to the securities held by Armistice. Armistice Capital, LLC and Mr. Boyd disclaim beneficial ownership in the shares, except to the extent of his or its pecuniary interest therein.
- (5) Includes 698,413 shares issuable upon exercise of warrants.
- (6) Includes 2,121,642 shares issuable upon exercise of warrants. Such warrants are subject to restrictions that prevent exercise to the extent that after the exercise the holder or its affiliates would beneficially own in excess of 4.99% of the Company's outstanding stock. Sabby Management, LLC serves as the investment manager of Sabby Volatility Warrant Master Fund, Ltd. ("SVWMF"). Hal Mintz is the manager of Sabby Management, LLC and has voting and investment control of the securities held by SVWMF. Each of Sabby Management, LLC and Hal Mintz disclaims beneficial ownership over the securities beneficially owned by SVWMF except to the extent of their respective pecuniary interest therein.

- (7) Ownership amounts for Series E holders are based on information provided by the Selling Stockholders in connection with filing the original registration statement on Form S-3 (SEC File No.333-235441). Amounts have not been updated to reflect subsequent changes in beneficial ownership.
- (8) Beneficial ownership includes warrants to purchase 67,600 shares. Also includes 90,200 shares and warrants to purchase 23,600 shares held as Personal Representative for the Estate of Larry C. Hopfenspirger.
- (9) Beneficial ownership includes warrants to purchase 17,160 shares.
- (10) Beneficial ownership includes warrants to purchase 2,100 shares.
- (11) Beneficial ownership includes warrants to purchase 27,280 shares.
- (12) Beneficial ownership includes warrants to purchase 17,160 shares.
- (13) David Olshansky is the beneficial owner and has voting and dispositive power with respect to these shares. Beneficial ownership includes warrants to purchase 52,067 shares
- (14) Beneficial ownership includes warrants to purchase 18,040 shares.
- (15) Beneficial ownership includes warrants to purchase 15,803 shares
- (16) Beneficial ownership includes warrants to purchase 5,500 shares.
- (17) Patricia Jordan is the beneficial owner and has voting and dispositive power with respect to these shares. Beneficial ownership includes warrants to purchase 87,022 shares
- (18) Beneficial ownership includes warrants to purchase 27,500 shares
- (19) Beneficial ownership includes warrants to purchase 27,950 shares.
- (20) Beneficial ownership includes warrants to purchase 60,354 shares.
- (21) Gillian Bush is the beneficial owner and has voting and dispositive power with respect to these shares. Beneficial ownership includes warrants to purchase 33,000 shares.

#### **PLAN OF DISTRIBUTION**

The Selling Stockholders or their permitted transferees may, from time to time, sell any or all of shares of our common stock covered hereby on the Nasdaq stock market, or any other stock exchange, market or trading facility on which the shares are traded or in private transactions. The Selling Stockholders may sell all or a portion of the shares being offered pursuant to this prospectus at fixed prices, at prevailing market prices at the time of sale, at varying prices or at negotiated prices. The Selling Stockholders may use any one or more of the following methods when selling securities:

- on any national securities exchange or quotation service on which the securities may be listed or quoted at the time of sale;
- in the over-the-counter market;
- in transactions otherwise than on these exchanges or systems or in the over-the-counter market;
- through the writing or settlement of options, whether such options are listed on an options exchange or otherwise;
- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;

- 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;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange; and
- privately negotiated transactions.

The Selling Stockholders may also sell securities under Rule 144 under the Securities Act, if available, rather than under this prospectus.

Broker-dealers engaged by the Selling Stockholders may arrange for other brokers-dealers to participate in sales. Broker-dealers may receive commissions or discounts from the Selling Stockholders (or, if any broker-dealer acts as agent for the purchaser of securities, from the purchaser) in amounts to be negotiated, provided such amounts are in compliance with FINRA Rule 2121. Discounts, concessions, commissions and similar selling expenses, if any, that can be attributed to the sale of common stock will be paid by the Selling Stockholders and/or the purchasers.

The Selling Stockholders may be deemed to be underwriters within the meaning of the Securities Act and any broker-dealers or agents that are involved in selling the shares may be deemed to be “underwriters” within the meaning of the Securities Act in connection with such sales. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the shares purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. Because the Selling Stockholders may be deemed to be underwriters within the meaning of the Securities Act, they may be subject to the prospectus delivery requirements of the Securities Act.

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

## **LEGAL MATTERS**

The validity of any securities offered from time to time by this prospectus and any related prospectus supplement will be passed upon by Maslon LLP, Minneapolis, Minnesota.

## **EXPERTS**

The financial statements incorporated in this prospectus by reference from the Company's Annual Report on Form 10-K for the year ended December 31, 2019 have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report, which is incorporated herein by reference (which report expresses an unqualified opinion and includes an explanatory paragraph relating to the substantial doubt about the Company's ability to continue as a going concern as described in Note 1 to the financial statements). Such financial statements have been so incorporated in reliance upon the report of such firm given upon their authority as experts in accounting and auditing.

The financial statements of Helomics Holding Corporation for the fiscal year ended December 31, 2018, as restated, incorporated by reference in this prospectus have been so incorporated in reliance on the report of Schneider Downs & Co., Inc., certified public accountants registered with the Public Company Accounting Oversight Board, as auditor for Helomics Holding Corporation prior to the acquisition by the Company.

## **WHERE YOU CAN FIND MORE INFORMATION**

We have filed with the SEC a registration statement on Form S-1 under the Securities Act with respect to the securities we are offering under this prospectus. This prospectus does not contain all of the information set forth in the registration statement and the exhibits to the registration statement. For further information with respect to us and the securities we are offering under this prospectus, we refer you to the registration statement and the exhibits and schedules filed as a part of the registration statement.

We file annual, quarterly and current reports, proxy statements and other information with the SEC. The SEC maintains a website that contains reports, proxy statements and other information regarding issuers that file electronically with the SEC, including us. The address of the SEC website is [www.sec.gov](http://www.sec.gov).

We maintain a website at [www.predictive-oncology.com](http://www.predictive-oncology.com). Information contained in, or accessible through, our website is not part of this prospectus and you should not rely on that information unless that information is also in this prospectus or incorporated by reference in this prospectus.

### **INCORPORATION OF CERTAIN DOCUMENTS BY REFERENCE**

The SEC allows us to “incorporate by reference” information into this prospectus, which means that we can disclose important information to you by referring you to another document filed separately with the SEC. The documents incorporated by reference into this prospectus contain important information that you should read about us. The following documents are incorporated by reference into this prospectus:

We are allowed to incorporate by reference information contained in documents that we file with the SEC. This means that we can disclose important information to you by referring you to those documents and that the information in this prospectus is not complete and you should read the information incorporated by reference for more detail. We incorporate by reference in two ways. First, we list certain documents that we have already filed with the SEC. The information in these documents is considered part of this prospectus. Second, the information in documents that we file in the future will update and supersede the current information in, and incorporated by reference in, this prospectus until we file a post-effective amendment that indicates the termination of the offering of the common stock made by this prospectus.

We incorporate by reference the documents listed below and any future filings we will make with the SEC under Section 13(a), 13(c), 14 or 15(d) of the Exchange Act (other than information furnished in Current Reports on Form 8-K filed under Item 2.02 or 7.01 of such form unless such form expressly provides to the contrary), including those made after the date of the initial filing of the registration statement of which this prospectus is a part and prior to effectiveness of such registration statement:

- Our Annual Report on Form 10-K for the fiscal year ended December 31, 2019;
- Our Quarterly Report on Form 10-Q for the quarter ended March 31, 2020, as amended on June 11, 2020;
- Current Reports on Form 8-K filed June 19, 2020, June 12, 2020, June 8, 2020, June 2, 2020, 2 reports filed on May 8, 2020, May 1, 2020, April 30, 2020, April 24, 2020, April 22, 2020, April 1, 2020, March 23, 2020, March 16, 2020, February 21, 2020, February 7, 2020, February 4, 2020, January 28, 2020, January 24, 2020, January 6, 2020; and April 10, 2019, as amended by amendment no. 1 on June 18, 2019 and amendment no. 2 on September 26, 2019; and
- The description of the Company’s common stock filed as Exhibit 4.29 “Description of Registrant’s Securities” to the Company’s Annual Report on Form 10-K on April 1, 2020.

We will provide to each person, including any beneficial owner, to whom a prospectus is delivered, a copy of any or all of the information that has been incorporated by reference in this prospectus but not delivered with this prospectus. You may request a copy of this information at no cost, by writing or telephoning us at the following address or telephone number:

Predictive Oncology Inc.  
Attention: Corporate Secretary  
2915 Commers Drive, Suite 900  
Eagan, Minnesota 55121  
(651) 389-4800

**PREDICTIVE ONCOLOGY INC.**

**1,738,357 Shares**

**Common Stock**

---

PROSPECTUS

---

\_\_\_\_\_, 2020

---

**PART II**  
**INFORMATION NOT REQUIRED IN PROSPECTUS**

**Item 14. Other Expenses Of Issuance And Distribution.**

The following table sets forth the costs and expenses, payable by the registrant in connection with the sale of common stock being registered. All amounts are estimates except the SEC registration fee and the Nasdaq listing fee.

Securities and Exchange Commission registration fee	\$	379.69
NASDAQ listing fee	\$	5,000.00
Printing and engraving expenses	\$	3,000.00
Legal fees and expenses	\$	25,000.00
Accounting fees and expenses	\$	10,000.00
Miscellaneous	\$	3,620.31
<b>Total</b>	<b>\$</b>	<b>47,000.00</b>

**Item 15. Indemnification of Directors and Officers.**

We are a Delaware corporation and certain provisions of the Delaware Statutes and our bylaws provide for indemnification of our officers and directors against liabilities that they may incur in such capacities. A summary of the circumstances in which indemnification is provided is discussed below, but this description is qualified in its entirety by reference to our bylaws and to the statutory provisions.

Section 145 of the Delaware General Corporation Law provides for, under certain circumstances, the indemnification of our officers, directors, employees and agents against liabilities that they may incur in such capacities. A summary of the circumstances in which such indemnification provided for is contained herein, but that description is qualified in its entirety by reference to the relevant Section of the Delaware General Corporation Law.

In general, the statute provides that any director, officer, employee or agent of a corporation may be indemnified against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement, actually and reasonably incurred in a proceeding (including any civil, criminal, administrative or investigative proceeding) to which the individual was a party by reason of such status. Such indemnity may be provided if the indemnified person's actions resulting in the liabilities: (i) were taken in good faith; (ii) were reasonably believed to have been in or not opposed to our best interest; and (iii) with respect to any criminal action, such person had no reasonable cause to believe the actions were unlawful. Unless ordered by a court, indemnification generally may be awarded only after a determination of independent members of the Board of Directors or a committee thereof, by independent legal counsel or by vote of the stockholders that the applicable standard of conduct was met by the individual to be indemnified.

The statutory provisions further provide that to the extent a director, officer, employee or agent is wholly successful on the merits or otherwise in defense of any proceeding to which he was a party, he is entitled to receive indemnification against expenses, including attorneys' fees, actually and reasonably incurred in connection with the proceeding.

Indemnification in connection with a proceeding by or in the right of the Company in which the director, officer, employee or agent is successful is permitted only with respect to expenses, including attorneys' fees actually and reasonably incurred in connection with the defense. In such actions, the person to be indemnified must have acted in good faith, in a manner believed to have been in our best interest and must not have been adjudged liable to us unless and only to the extent that the Court of Chancery or the court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability, in view of all the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expense which the Court of Chancery or such other court shall deem proper. Indemnification is otherwise prohibited in connection with a proceeding brought on behalf of the Company in which a director is adjudged liable to us, or in connection with any proceeding charging improper personal benefit to the director in which the director is adjudged liable for receipt of an improper personal benefit.

Delaware law authorizes us to reimburse or pay reasonable expenses incurred by a director, officer, employee or agent in connection with a proceeding in advance of a final disposition of the matter. Such advances of expenses are permitted if the person furnishes to us a written agreement to repay such advances if it is determined that he is not entitled to be indemnified by us.

The statutory section cited above further specifies that any provisions for indemnification of or advances for expenses does not exclude other rights under our certificate of incorporation, corporate bylaws, resolutions of our stockholders or disinterested directors, or otherwise. These indemnification provisions continue for a person who has ceased to be a director, officer, employee or agent of the corporation and inure to the benefit of the heirs, executors and administrators of such persons.

The statutory provision cited above also grants the power to the Company to purchase and maintain insurance policies that protect any director, officer, employee or agent against any liability asserted against or incurred by him in such capacity arising out of his status as such. Such policies may provide for indemnification whether or not the corporation would otherwise have the power to provide for it.

Article 8 of our certificate of incorporation provides that we shall indemnify our directors and officers to the fullest extent permitted by the Delaware General Corporation Law.

We have purchased directors' and officers' liability insurance in order to limit the exposure to liability for indemnification of directors and officers, including liabilities under the Securities Act of 1933.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted for our directors, officers, and controlling persons pursuant to the foregoing provisions or otherwise, we have been advised that in the opinion of the SEC, such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable.

**Item 16. Exhibits.**

See "Exhibit Index" below, which follows the signature pages to this registration statement.

**Item 17. Undertakings.**

The undersigned registrant hereby undertakes:

- (a) (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, an 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 a 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.
- (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 of the registrant 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 the registration statement; and
  - (ii) Each prospectus required to be filed pursuant to Rule 424(b)(2), 424(b)(5), or 424(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), 415(a)(1)(vii), or 415(a)(1)(x) for the purpose of providing the information required by Section 10(a) of the Securities Act 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.
- (5) 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;
  - (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.
- (b) The undersigned registrant hereby further undertakes that, for the purposes of determining any liability under the Securities Act, each filing of the registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in this 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.
- (c) 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 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to 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.
- (d) Insofar as indemnification for liabilities arising under the Securities Act 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 SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the 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 of whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.
- (e) For purposes of determining any liability under the Securities Act, 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.
- (f) For the purpose of determining any liability under the Securities Act, 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.
- (g) If and when applicable, the Registrant hereby further undertakes to file an application for the purpose of determining the eligibility of the trustee to act under subsection (a) of Section 310 of the Trust Indenture Act in accordance with the rules and regulations prescribed by the Securities and Exchange Commission under Section 305(b)(2) of the Trust Indenture Act.

## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized in the City of Eagan, State of Minnesota, on June 23, 2020.

### PREDICTIVE ONCOLOGY INC.

/s/ Bob Myers  
Bob Myers  
Chief Financial Officer

## POWER OF ATTORNEY

Each person whose signature appears below hereby constitutes and appoints Carl Schwartz and Bob Myers, and each of them, as his true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this registration statement, and any and all additional registration statements pursuant to Rule 462(b) of the Securities Act of 1933, as amended, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent or his substitutes or substitute, may lawfully do or cause to be done by virtue hereof.

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:

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>*</u> Carl Schwartz	Chief Executive Officer (principal executive officer) and Director	June 23, 2020
<u>/s/ Bob Myers</u> Bob Myers	Chief Financial Officer (principal financial and accounting officer)	June 23, 2020
<u>*</u> J. Melville Engle	Director	June 23, 2020
<u>*</u> Richard L. Gabriel	Director	June 23, 2020
<u>*</u> Daniel E. Handley	Director	June 23, 2020
<u>*</u> Andrew P. Reding	Director	June 23, 2020

\* By Power of Attorney

---

## EXHIBIT INDEX

<b>Exhibit Number</b>	<b>Description</b>
1.1	Letter Agreement dated May 6, 2020 by and between the Company and H.C. Wainwright & Co., LLC (49) <a href="#">Exhibit 1.1</a>
2.1	Amended and Restated Agreement and Plan of Merger dated October 22, 2018 (18) <a href="#">Exhibit 2.1</a>
3.1	Certificate of Incorporation (1) <a href="#">Exhibit 3.1</a>
3.2	Certificate of Amendment to Certificate of Incorporation to effect reverse stock split and reduction in authorized share capital filed with the Delaware Secretary of State on October 20, 2014 (6) <a href="#">Exhibit 3.2</a>
3.3	Certificate of Amendment to Certificate of Incorporation regarding increase in share capital, filed with the Delaware Secretary of State on July 24, 2015 (7) <a href="#">Exhibit 3.3</a>
3.4	Certificate of Amendment to Certificate of Incorporation to increase authorized share capital, filed with the Delaware Secretary of State on September 16, 2016 (11) <a href="#">Exhibit 3.4</a>
3.5	Certificate of Amendment to Certificate of Incorporation to effect reverse stock split and reduction in authorized share capital, fled with the Delaware Secretary of State on October 26, 2016 (12) <a href="#">Exhibit 3.5</a>
3.6	Certificate of Amendment to Certificate of Incorporation regarding increase in share capital, filed with the Delaware Secretary of State on January 26, 2017 (13) <a href="#">Exhibit 3.6</a>
3.7	Certificate of Amendment to Certificate of Incorporation to effect reverse stock split, filed with the Delaware Secretary of State on January 2, 2018 (21) <a href="#">Exhibit 3.7</a>
3.8	Certificate of Amendment to Certificate of Incorporation to effect name change, filed with the Delaware Secretary of State on February 1, 2018 (8) <a href="#">Exhibit 3.8</a>
3.9	Certificate of Amendment to Certificate of Incorporation to increase authorized share capital and establish a classified Board of Directors (23) <a href="#">Exhibit 3.9</a>
3.10	Second Amended and Restated Bylaws as of June 10, 2019 (34) <a href="#">Exhibit 3.10</a>
3.11	Form of Certificate of Designation of Preferences, Rights and Limitations of Series B Convertible Preferred Stock (9) <a href="#">Exhibit 3.11</a>
3.12	Certificate of Designation of Preferences, Rights and Limitations of Series C Convertible Preferred Stock (20) <a href="#">Exhibit 3.12</a>
3.13	Certificate of Amendment to Certificate of Incorporation dated March 22, 2019 (24) <a href="#">Exhibit 3.13</a>
3.14	Certificate of Designation Of Preferences, Rights And Limitations of Series D Convertible Preferred Stock (48) <a href="#">Exhibit 3.14</a>

---

- 3.15 Certificate of Designation of Preferences, Rights and Limitations of Series E Convertible Preferred Stock Effective June 13, 2019 (35) [Exhibit 3.15](#)
  - 3.16 Certificate of Amendment of Certificate of Incorporation (34) [Exhibit 3.16](#)
  - 3.17 Certificate of Amendment of Certificate of Incorporation (41) [Exhibit 3.17](#)
  - 4.1 Form of specimen certificate evidencing shares of Series B Convertible Preferred Stock (10) [Exhibit 4.1](#)
  - 4.2 Form of New Warrant Agency Agreement by and between Skyline Medical Inc. and Form of Warrant Certificate for Series B Warrant (14) [Exhibit 4.2](#)
  - 4.3 Form of Series B Warrant Certificate (included as part of Exhibit 4.2) (14) [Exhibit 4.3](#)
  - 4.4 Form of Series C Warrant (15) [Exhibit 4.4](#)
  - 4.5 Form of Unit Purchase Option (15) [Exhibit 4.5](#)
  - 4.6 Form of Series D Warrant Agency Agreement by and between Skyline Medical Inc. and Corporate Stock Transfer, Inc. and Form of Series D Warrant Certificate (16) [Exhibit 4.6](#)
  - 4.7 Form of Series D Warrant Certificate (included as part of Exhibit 4.6) (16) [Exhibit 4.7](#)
  - 4.8 Form of Amendment to Warrant (8) [Exhibit 4.8](#)
  - 4.9 Investor Warrant (20) [Exhibit 4.9](#)
  - 4.10 Series E Warrant Agency Agreement by and between Skyline Medical Inc. and Corporate Stock Transfer, Inc. dated January 9, 2018 (22) [Exhibit 4.10](#)
  - 4.11 Form of Series E Warrant Certificate (22) [Exhibit 4.11](#)
  - 4.12 Common Stock Purchase Warrant issued to L2 Capital, LLC dated September 28, 2018 (23) [Exhibit 4.12](#)
  - 4.13 Common Stock Purchase Warrant issued to Peak One Opportunity Fund, LP dated September 28, 2018 (23) [Exhibit 4.13](#)
  - 4.14 Second Amended and Restated Common Stock Purchase Warrant issued to Carl Schwartz dated February 6, 2019 (25) [Exhibit 4.14](#)
  - 4.15 Form of Warrant (Initial Issue Date: March 1, 2019) (26) [Exhibit 4.15](#)
  - 4.16 Form of Unit Purchase Option (26) [Exhibit 4.16](#)
  - 4.17 Common Stock Purchase Warrant issued to Carl Schwartz dated November 30, 2018 (27) [Exhibit 4.17](#)
  - 4.18 Amended and Restated Common Stock Purchase Warrant issued to Carl Schwartz dated January 8, 2019 (28) [Exhibit 4.18](#)
  - 4.19 Form of Common Stock Purchase Warrant issued March 29, 2019 (31) [Exhibit 4.19](#)
  - 4.20 Form of Unit Purchase Option for the Purchase of Units (31) [Exhibit 4.20](#)
-

- 4.21 Common Stock Purchase Warrant Issued to Oasis Capital, LLC dated September 27, 2019 (37) [Exhibit 4.21](#)
- 4.22 Form of Specimen Common Stock Certificate (38) [Exhibit 4.22](#)
- 4.23 Form of Common Stock Purchase Warrant Issued on or about October 1, 2019 (39) [Exhibit 4.23](#)
- 4.24 Common Stock Purchase Warrant issued to Oasis Capital, LLC dated February 5, 2020 (45) [Exhibit 4.24](#)
- 4.25 Form of Series A Warrant (46) [Exhibit 4.25](#)
- 4.26 Form of Series B Warrant (46) [Exhibit 4.26](#)
- 4.27 Form of Prefunded Warrant (46) [Exhibit 4.27](#)
- 4.28 Form of Prefunded Common Stock Purchase Warrant (47) [Exhibit 4.28](#)
- 4.29 Description of Registrant's Securities (48) [Exhibit 4.29](#)
- 4.30 Common Stock Purchase Warrant issued to Oasis Capital, LLC dated March 6, 2020 (44) [Exhibit 4.30](#)
- 4.31 Common Stock Purchase Warrant issued to Oasis Capital, LLC dated April 5, 2020 (44) [Exhibit 4.31](#)
- 4.32 Form of Common Stock Purchase Warrant (49) [Exhibit 4.32](#)
- 5.1\* Opinion of Maslon LLP [Exhibit 5.1](#)
- 10.1 Securities Purchase Agreement by and among the Company and the Investors dated May 6, 2020 (49) [Exhibit 10.1](#)
- 10.2 Securities Purchase Agreement by and among the Company and each purchaser of Series E Convertible Preferred Stock (42) [Exhibit 10.2](#)
- 23.1\* Consent of Deloitte & Touche LLP [Exhibit 23.1](#)
- 23.2\* Consent of Schneider Downs & Co., Inc. [Exhibit 23.2](#)
- 23.3\* Consent of Maslon LLP (included as part of [Exhibit 5.1](#))
- 24.1\* Power of Attorney (included on signature page of [S-1](#))

\* Filed on June 16, 2020 as an exhibit to our Registration Statement on Form S-1.

- (1) Filed on December 19, 2013 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (2) - (5) RESERVED
  - (6) Filed on October 24, 2014 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
-

- (7) Filed on June 30, 2015 as an appendix to our Information Statement on Schedule 14C and incorporated herein by reference.
  - (8) Filed on February 6, 2018 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (9) Filed on August 20, 2015 as an exhibit to our Registration Statement on Form S-1 (File No. 333-198962) and incorporated herein by reference.
  - (10) Filed on August 10, 2015 as an exhibit to our Registration Statement on Form S-1 (File No. 333-198962) and incorporated herein by reference.
  - (11) Filed on September 16, 2016 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (12) Filed on October 27, 2016 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (13) Filed on January 27, 2017 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (14) Filed on March 25, 2016 as an exhibit to our Registration Statement on Form S-4 (File No. 333-210398) and incorporated herein by reference.
  - (15) Filed on November 30, 2016 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (16) Filed on January 10, 2017 as an exhibit to our Registration Statement on Form S-1 (File No. 333-215005) and incorporated herein by reference.
  - (17) RESERVED
  - (18) Filed on October 30, 2018 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (19) RESERVED
  - (20) Filed on November 29, 2017 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (21) Filed on January 2, 2018 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (22) Filed on January 10, 2018 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (23) Filed on October 4, 2018 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (24) Filed on March 22, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (25) Filed on February 12, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (26) Filed on March 1, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
-

- (27) Filed on December 7, 2018 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (28) Filed on January 14, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (29) RESERVED
  - (30) RESERVED
  - (31) Filed on April 2, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference.
  - (32) RESERVED
  - (33) RESERVED
  - (34) Filed on June 13, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference
  - (35) Filed on June 19, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference
  - (36) RESERVED
  - (37) Filed on September 30, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference
  - (38) Filed on October 3, 2019 as an exhibit to our Registration Statement on Form S-3 (File No. 333-234073) and incorporated herein by reference
  - (39) Filed on October 10, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference
  - (40) Filed on October 25, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference
  - (41) Filed on October 28, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference
  - (42) Filed on July 11, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference
  - (43) Filed on December 19, 2019 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference
  - (44) Filed on April 6, 2020 as an exhibit to our Registration Statement on Form S-3 (File No. 333-237581) and incorporated herein by reference
  - (45) Filed on February 7, 2020 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference
  - (46) Filed on March 16, 2020 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference
  - (47) Filed on March 23, 2020 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference
  - (48) Filed on April 1, 2020 as an exhibit to our Annual Report on Form 10-K and incorporated herein by reference
  - (49) Filed on May 8, 2020 as an exhibit to our Current Report on Form 8-K and incorporated herein by reference
-