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

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): November 6, 2018

Precision Therapeutics Inc. (Exact name of Registrant as Specified in its Charter)

Delaware 001-36790 (State or Other Jurisdiction of Incorporation) (Commission File Number)

33-1007393

(IRS Employer Identification No.)

2915 Commers Drive, Suite 900
Eagan, Minnesota
(Address of Principal Executive Offices)

55121

(Zip Code)

Registrant's telephone number, including area code: (651) 389-4800

Former Name or Former Address, if Changed Since Last Report: Not Applicable

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (*see* General Instruction A.2. below):

- x Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

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 13(a) of the Exchange Act. o

Item 8.01 .Other Events.

On November 6, 2018, Precision Therapeutics Inc. ("Precision") issued a press release attached hereto as Exhibit 99.1.

Additional Information and Where to Find It

This communication does not constitute an offer to sell or the solicitation of an offer to buy any securities or a solicitation of any vote or approval. This communication may be deemed to be solicitation material in respect of the proposed merger transaction between Precision and Helomics Holding Corporation ("Helomics"). In connection with the proposed transaction, Precision has filed a registration statement on Form S-4, containing a proxy statement/prospectus (the "S-4") with the Securities and Exchange Commission ("SEC"). This communication is not a substitute for the registration statement, definitive proxy statement/prospectus or any other documents that Precision has filed or may file with the SEC or that Precision or Helomics has sent or may send to their respective security holders in connection with the proposed transaction.

SECURITY HOLDERS OF HELOMICS ARE URGED TO READ ALL RELEVANT DOCUMENTS FILED WITH THE SEC, INCLUDING THE PROXY STATEMENT/PROSPECTUS, BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION ABOUT THE PROPOSED TRANSACTION.

Investors and security holders will be able to obtain copies of the S-4, including the proxy statement/prospectus, and other documents filed with the SEC (when available) free of charge at the SEC's website, http://www.sec.gov after they are filed. Copies of documents filed with the SEC by Precision will be made available free of charge on Precision's website at www.precisiontherapeutics.com.

Item 9.01. Financial Statements and Exhibits.

- (a) Not applicable.
- (b) Not applicable.
- (c) Not applicable.
- (d) Exhibits.

Exhibit No.

Description

99.1

Press Release dated October 6, 2018

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

PRECISION THERAPEUTICS INC.

By: /s/ Bob Myers

Name: Bob Myers

Title: Chief Financial Officer

Date: November 6, 2018



PRESS RELEASE

Precision Therapeutics Secures Rights to Novel Technology Designed To Develop Drugs That Target Specific Cancer by Its Mutation

MINNEAPOLIS (November 6, 2018) - Precision Therapeutics Inc. (NASDAQ: AIPT) ("Precision" or "the Company"), a company focused on applying artificial intelligence to personalized medicine and drug discovery, announced today that it has acquired rights to technology for the proprietary culture media to grow ovarian cancer cell types in the laboratory for research and testing. Precision's joint venture partner, GLG Pharma LLC ("GLG"), has agreed to terms on a non-exclusive license to this technology from a research institution. TumorGenesis, Inc. ("TumorGenesis"), a wholly owned subsidiary of Precision, has developed a discovery kit using this technology for screening of these ovarian cancer cell types.

This effort is part of the partnership of TumorGenesis and GLG to advance ovarian cell capture, culture and chemistry (screening multiple oncology compounds against a patient's individual tumor). 14 of the 24 identified ovarian cancer cell types represent nearly 90% of all ovarian cancers, TumorGenesis' first drug discovery target. The development of the kit is the first milestone in the company's quest to grow human tumors outside the body. The next three milestones include identifying the peptides and structure needed to grow a tumor, selecting the one that works the best, and then growing a tumor exogenously.

Richard Gabriel, Chief Operating Officer and Member of the Board of Directors at Precision Therapeutics, commented: "The first discovery kit has been built and is being made available to clients of TumorGenesis for whole cell screening in Clinical Research Projects. We believe this screening will represent a major breakthrough for ovarian cancer patients, as these cells are unique and are difficult to culture. With TumorGenesis biomarkers for ovarian cancer, upon completion of the next milestones, researchers will be able to fool ovarian cancer cells into growing as if they were still in the patient. This will help our pharmaceutical clients research and develop new drugs or a combination therapy with previously approved drugs to improve patient outcomes."

Hector J. Gomez, MD, PhD, CEO of GLG Pharma, commented: "In ovarian cancer, fewer than 40% of the women survive from standard of care treatment that is usually Taxol combined with Cisplatin or Carboplatin. The odds are basically a 50-50-coin toss. Our joint venture's approach, which targets cancer by the patient's specific mutation, is designed to change the paradigm from a 50-50 to a 70-30 or higher ratio in favor of the patient."

1

Dr. Carl Schwartz, CEO of Precision Therapeutics, commented: "The licensing of the growth media by our partner, GLG, is crucial to growing reliable ovarian cancer cells that are more closely matched to the patient's cancer cells. TumorGenesis is targeting the Clinical Research market, and GLG, is targeting clinical trials and FDA compliance in combination with their own drugs. We are extremely pleased with our partnership and advancement to help women who are subjected to this insidious and lethal disease."

To be added to the Precision Therapeutics' database, please email Info@MoneyInfo-llc.com with your email address. This is solely for the use of Precision Therapeutics and will not be sold or distributed to third parties.

Additional Information and Where to Find It

This communication does not constitute an offer to sell or the solicitation of an offer to buy any securities or a solicitation of any vote or approval. This communication may be deemed to be solicitation material in respect of the proposed transaction between Precision and Helomics. In connection with the proposed transaction, Precision has filed a registration statement on Form S-4, containing an exchange offer prospectus, a proxy statement for the annual meeting of the stockholders of Precision, an information statement and other detailed information regarding the proposed merger and related matters (the "S-4") with the SEC.

Each of Precision and Helomics plans to mail the proxy statement/prospectus/information statement contained in the Form S-4 to its stockholders at a future date. The Form S-4 and proxy statement/prospectus/information statement contains important information about Precision, Helomics, the merger and related matters. Investors and stockholders should read carefully the proxy statement/prospectus/information statement and the other documents filed with the SEC in connection with the merger before they make any decision with respect to the merger. A copy of the merger agreement with respect to the merger has been filed by Precision as an exhibit to its Form 8-K dated October 26, 2018.

The identity of people who, under SEC rules, may be considered "participants in the solicitation" of Helomics stockholders in connection with the proposed merger, and a description of their interests, is disclosed in the S-4 filing made by Precision.

This communication is not a substitute for the registration statement, definitive proxy statement/prospectus/information statement or any other documents that Precision has filed or may file with the SEC or that Precision or Helomics may send to their respective security holders in connection with the proposed transaction.

SECURITY HOLDERS OF HELOMICS ARE URGED TO READ ALL RELEVANT DOCUMENTS FILED WITH THE SEC, INCLUDING THE PROXY STATEMENT/PROSPECTUS/INFORMATION STATEMENT, BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION ABOUT THE PROPOSED TRANSACTION.

The proxy statement/prospectus/information statement, the Form 8-K and all other documents filed with the SEC in connection with the merger will be made available to investors free of charge on Precision's website at www.precisiontherapeutics.com. In addition, the proxy statement/prospectus, the Form 8-K and all other documents filed with the SEC in connection with the merger will be made available to investors free of charge by calling or writing to:

Bob Myers, Chief Financial Officer Precision Therapeutics Inc 2915 Commers Drive, Suite 900 Eagan, MN 55121 Tel: 651-389-4806

In addition to the Form S-4, the proxy statement/prospectus/information statement and the other documents filed with the SEC in connection with the merger, Precision is obligated to file annual, quarterly and special reports, proxy statements and other information with the SEC. You may read and copy any reports, statements and other information filed with the SEC at the SEC's public reference rooms at 450 Fifth Street, N.W., Washington, D.C. 20549 or at the other public reference rooms in New York, New York and Chicago, Illinois. Please call the SEC at 1-800-SEC-0330 for further information on the public reference rooms. Filings with the SEC are also available to the public from commercial document-retrieval services and at the website maintained by the SEC at www.sec.gov.

About GLG Pharma

Founded in 2009 and located in Jupiter, Florida, GLG Pharma, LLC is a privately held, early stage, biotechnology company developing personalized therapies for patients with cancer and other proliferative diseases. GLG Pharma's therapeutics are expected to aid in the treatment of a wide variety of cancers and address unmet needs in the multi-billion dollar anti-cancer market with potentially greater efficacy and fewer side effects than existing therapies. GLG Pharma has recently launched its Gx-C3 platform to be used in conjunction with its proprietary drugs, fooling cancer cells into behaving as if they were still in the patient, bringing reliable, lower cost and rapid drug combination screening for cancer patients. Gx-C3 is Cancer Cell Capture, Culture and Chemistry. GLG is partnered with TumorGenesis, a wholly owned subsidiary of Precision Therapeutics for the advancement of Artificial Intelligence linked to cancer patient treatment. For more information on GLG Pharma visit: http://www.glgpharma.com

About Precision Therapeutics Inc.

Precision Therapeutics (NASDAQ:AIPT) operates in two business areas: first, applying artificial intelligence to personalized medicine and drug discovery to provide personalized medicine solutions for patients and clinicians as well as clients in the pharmaceutical, diagnostic, and biotech industries, and second, production of the FDA-approved STREAMWAY® System for automated, direct-to-drain medical fluid disposal. For additional information, please visit www.precisiontherapeutics.com.

Precision Therapeutics' medicine business is committed to improving the effectiveness of cancer therapy using the power of artificial intelligence (AI) applied to rich data diseases databases. This business has launched with Precision Therapeutics' investment in Helomics Corporation, a precision medicine company and integrated clinical contract research organization whose mission is to improve patient care by partnering with pharmaceutical, diagnostic, and academic organizations to bring innovative clinical products and technologies to the marketplace. In addition to its proprietary precision diagnostics for oncology, Helomics offers boutique CRO services that leverage their patient-derived tumor models, coupled to a wide range of multi-omics assays (genomics, proteomics and biochemical), and a proprietary bioinformatics platform (D-CHIP) to provide a tailored solution to our client's specific needs. Helomics is 25% owned by Precision Therapeutics. Helomics® is headquartered in Pittsburgh, Pennsylvania where the company maintains state-of-the-art, CLIA-certified, clinical and research laboratories. For more information, please visit www.Helomics.com.

Precision Therapeutics has also announced the formation of a subsidiary, TumorGenesis to pursue 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. Precision Therapeutics and Helomics 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). The growth strategy in this business includes securing new partnerships and considering acquisitions in the precision medicine space.

Sold through the Skyline Medical business of Precision Therapeutics, 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 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 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 U.S. For additional information, please visit www.skylinemedical.com.

Forward-looking Statements

Certain of the matters discussed in this announcement contain forward-looking statements that involve material risks to and uncertainties in the Company's business that may cause actual results to differ materially from those anticipated by the statements made herein. Such risks and uncertainties include (1) risks related to the proposed merger, including the fact that we may not complete the merger; we do not have complete information about Helomics; the combined company will not be able to continue operating without additional financing; possible failure to realize anticipated benefits of the merger; costs associated with the merger may be higher than expected; the merger may result in disruption of the Company's and Helomics' existing businesses, distraction of management and diversion of resources; delay in completion of the merger may significantly reduce the expected benefits; and the market price of the Company's common stock may decline as a result of the merger; (2) 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; and (3) other risks and uncertainties relating to the Company that include, among other things, current negative operating cash flows and a need for additional funding to finance our operating plan; the terms of any further financing, which may be highly dilutive and may include onerous terms; unexpected costs and operating deficits, and lower than expected sales and revenues; sales cycles that can be longer than expected, resulting in delays in projected sales or failure to make such sales; uncertain willingness and ability of customers to adopt new technologies and other factors that may affect further market acceptance, if our product is not accepted by our potential customers, it is unlikely that we will ever become profitable; adverse economic conditions; adverse results of any legal proceedings; the volatility of our operating results and financial condition; inability to attract or retain qualified senior management personnel, including sales and marketing personnel; our ability to establish and maintain the proprietary nature of our technology through the patent process, as well as our ability to possibly license from others patents and patent applications necessary to develop products; the Company's ability to implement its long range business plan for various applications of its technology; the Company's ability to enter into agreements with any necessary marketing and/or distribution partners and with any strategic or joint venture partners; the impact of competition, the obtaining and maintenance of any necessary regulatory clearances applicable to applications of the Company's technology; and management of growth and other risks and uncertainties that may be detailed from time to time in the Company's reports filed with the Securities and Exchange Commission, which are available for review at www.sec.gov. This is not a solicitation to buy or sell securities and does not purport to be an analysis of the Company's financial position. See the Company's most recent Annual Report on Form 10-K, and subsequent reports and other filings at www.sec.gov.

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6