

**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): September 30, 2020

LANTHEUS HOLDINGS, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation)

001-36569
(Commission
File Number)

35-2318913
(IRS Employer
Identification No.)

331 Treble Cove Road, North Billerica, MA
(Address of principal executive offices)

01862
(Zip Code)

Registrant's telephone number, including area code: (978) 671-8001

Not Applicable

(Former name or former address, if changed since last report.)

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):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- 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))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common stock, par value \$0.01 per share	LNTH	The Nasdaq Global Market

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.

Item 8.01. Other Events.

On September 30, 2020, Lantheus Holdings, Inc. (the “Company”) issued a press release announcing its submission of a New Drug Application to the U.S. FDA for PyL™ (18F-DCFPyL), a PSMA-targeted prostate cancer imaging agent.

A copy of the press release is attached as Exhibit 99.1 and incorporated herein by reference.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

<u>Exhibit No.</u>	<u>Description</u>
99.1	Press release of Lantheus Holdings, Inc. announcing the submission of a New Drug Application to the U.S. FDA for PyL™ (18F-DCFPyL), a PSMA-targeted prostate cancer imaging agent.
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

SIGNATURES

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

LANTHEUS HOLDINGS, INC.

By: /s/ Michael P. Duffy

Name: Michael P. Duffy

Title: Senior Vice President and General Counsel

Date: September 30, 2020



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Lantheus Holdings Submits New Drug Application to the U.S. FDA for PyL™ (18F-DCFPyL), a PSMA-Targeted Prostate Cancer Imaging Agent

NORTH BILLERICA, MA., September 30, 2020 - [Lantheus Holdings, Inc.](#) (the "Company") (NASDAQ: LNTH), the parent company of Lantheus Medical Imaging, Inc. and Progenics Pharmaceuticals, Inc., and a global leader in the development, manufacture and commercialization of innovative diagnostic and therapeutic agents and products, today announced the submission of a New Drug Application (NDA) to the U.S. Food and Drug Administration (FDA) for PyL™ (18F-DCFPyL), a prostate specific membrane antigen (PSMA)-targeted positron emission tomography (PET) imaging agent for prostate cancer. The NDA includes a request for Priority Review, which if granted, could shorten the FDA's review of the NDA to six months from the time of acceptance, versus the standard review timeline of 10 months from acceptance. The Company expects to receive notification from the FDA confirming acceptance of the filing for substantive review in early December 2020.

"The completion of our NDA submission marks a significant milestone for Lantheus and our PyL clinical development program," said Mary Anne Heino, President and Chief Executive Officer of Lantheus. "Prostate cancer is the second leading cause of cancer death in men. Fortunately, men can live for a long time with their disease if managed appropriately. There are approximately 3.2 million men in the United States annually living with this disease.¹ We believe that PyL, if approved, will play an ongoing role in the diagnosis and management of prostate cancer."

The NDA is supported by data from two pivotal studies (OSPREY and CONDOR), designed to establish the safety and diagnostic performance of PyL imaging across the disease continuum of prostate cancer. Results from OSPREY Cohort A demonstrated improvement in specificity and positive predictive value (PPV) of PyL PET imaging over conventional imaging in men with high risk prostate cancer. OSPREY Cohort B and CONDOR studied men with prostate cancer in various disease states, including biochemical recurrent prostate cancer, hormone sensitive prostate cancer, non-metastatic castrate resistant prostate cancer, and metastatic castrate resistant prostate cancer. OSPREY Cohort B demonstrated a sensitivity in detecting metastatic lesions, while CONDOR, in patients with biochemical recurrent prostate cancer and non-informative baseline findings, demonstrated a high correct localization rate and high detection rate, including patients with low PSA values. In the CONDOR study, 63.9% of patients had a change in intended disease management plans due to the PyL imaging results. We believe the results from these two studies, taken as a whole, demonstrate the ability of PyL to reliably detect and localize disease and could enable more appropriate patient management.

PyL has been administered in approximately 3,500 subjects globally, including the two Company sponsored studies, multiple investigator sponsored studies, as well as clinical use reported in the literature. Across all of these studies PyL has shown an attractive safety profile.

“We are extremely grateful to the prostate cancer patients and investigators who participated in PyL’s clinical development program,” said Istvan Molnar, MD, Chief Medical Officer of Lantheus. “We believe that the demonstrated strong diagnostic performance of PyL, will assist in treatment decisions and, ultimately, may improve patient outcomes. We look forward to working with the FDA during the regulatory process in pursuit of our goal of bringing PyL to patients.”

About PyL™ for PET Imaging of Prostate Cancer

PyL (also known as 18F-DCFPyL) is a fluorinated PSMA-targeted PET imaging agent that enables visualization of localized prostate cancer as well as bone and soft tissue metastases to determine the presence or absence of recurrent and/or metastatic prostate cancer.

About OSPREY

The Phase 2/3 OSPREY trial assessed the diagnostic performance of PyL to detect prostate cancer in pelvic lymph nodes in subjects with high risk locally advanced prostate cancer (Cohort A) and distant metastases in subjects with metastatic or recurrent prostate cancer (Cohort B). In the trial, the diagnostic performance of PyL in detecting disease in pelvic lymph nodes (Cohort A) showed specificity of 96-99%, sensitivity of 31-42%, and PPV of 78-91% although the trial did not meet one of its the primary endpoints. In the metastatic or recurrent prostate cancer setting (Cohort B), PyL exhibited sensitivity of 93-99% and PPV of 81-88% in detecting metastatic lesions. Overall, PyL demonstrated high diagnostic performance in reliably detecting nodal and distant metastatic prostate cancer.

About CONDOR

The Phase 3 CONDOR trial evaluated the diagnostic performance and clinical impact of PyL in men with biochemical recurrence of prostate cancer and uninformative baseline imaging based on conventional modalities. The CONDOR trial achieved its primary endpoint, with a correct localization rate (CLR) of 84.8% to 87.0% among the three blinded independent readers (the lower bound of the 95% confidence intervals ranging from 77.8% to 80.4%). CLR is based on positive predictive value, defined as the percentage of subjects with a one-to-one correspondence between localization of at least one lesion identified on PyL PET/CT and a composite truth standard comprised of histopathology, conventional imaging and/or changes in PSA levels following radiation therapy. 63.9% of subjects in the CONDOR trial had a change in intended disease management plans due to PyL imaging results, a key secondary endpoint of the trial. The changes to treatment management plans due to the PyL results included salvage local therapy to systemic therapy, observation to initiating therapy, noncurative systemic therapy to salvage local therapy, and planned treatment to observation.

About Prostate Cancer

Prostate cancer is the second most common form of cancer affecting men in the United States: an estimated one in nine men will be diagnosed with prostate cancer in his lifetime. The American Cancer Society estimates that each year approximately 192,000 new cases of prostate cancer will be diagnosed, and 33,000 men will die of the disease. Approximately 3.2 million men in the U.S. currently count themselves among prostate cancer survivors.¹

About Lantheus Holdings, Inc.

Lantheus Holdings, Inc. is the parent company of Lantheus Medical Imaging, Inc. and Progenics Pharmaceuticals, Inc., and a global leader in the development, manufacture and commercialization of innovative diagnostic and therapeutic agents and products. Lantheus provides a broad portfolio of products, including the echocardiography agent DEFINITY® Vial for (Perflutren Lipid Microsphere) Injectable Suspension; TechnoLite® (Technetium Tc99m Generator), a technetium-based generator that provides the essential medical isotope used in nuclear medicine procedures; AZEDRA® for the treatment of certain rare neuroendocrine tumors; and RELISTOR® for the treatment of opioid-induced constipation, which is partnered with Bausch Health Companies, Inc. The Company is headquartered in North Billerica, Massachusetts with offices in New York, New Jersey, Puerto Rico, Canada and Sweden. For more information, visit www.lantheus.com.

Safe Harbor for Forward-Looking and Cautionary Statements

This press release contains “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, that are subject to risks and uncertainties and are made pursuant to the safe harbor provisions of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Forward-looking statements may be identified by their use of terms such as “anticipate,” “believe,” “confident,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “predict,” “project,” “target,” “will” and other similar terms. Such forward-looking statements are based upon current plans, estimates and expectations that are subject to risks and uncertainties that could cause actual results to materially differ from those described in the forward-looking statements. The inclusion of forward-looking statements should not be regarded as a representation that such plans, estimates and expectations will be achieved. Readers are cautioned not to place undue reliance on the forward-looking statements contained herein, which speak only as of the date hereof. The Company undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future developments or otherwise, except as may be required by law. Risks and uncertainties that could cause our actual results to materially differ from those described in the forward-looking statements include (i) a delay in obtaining, or failure to obtain, a positive regulatory outcome from the FDA and other regulatory authorities for PyL; (ii) the Company’s ability to successfully launch PyL as a commercial product; (iii) the market receptivity to PyL as a new diagnostic agent; (iv) the safety and efficacy of PyL; (v) the intellectual property protection of PyL; and (vi) the risk and uncertainties discussed in our filings with the Securities and Exchange Commission (including those described in the Risk Factors section in our Annual Reports on Form 10-K and our Quarterly Reports on Form 10-Q).

¹ National Cancer Institute. SEER Cancer Stat Facts: Prostate Cancer. Accessed at <https://seer.cancer.gov/statfacts/html/prost.html> on March 15, 2019.

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