## **UNITED STATES** SECURITIES AND EXCHANGE COMMISSION

**WASHINGTON, D.C. 20549** 

### FORM S-8 **REGISTRATION STATEMENT**

THE SECURITIES ACT OF 1933

# Lantheus Holdings, Inc.

(Exact name of registrant as specified in its charter)

**Delaware** 35-2318913 (I.R.S. Employer Identification No.) (State or other jurisdiction of incorporation or organization) 331 Treble Cove Road North Billerica, Massachusetts 01862

(Address of Principal Executive Offices)

2015 Equity Incentive Plan (Full Title of Plan)

01862

(Zip Code)

Michael P. Duffy **Senior Vice President and General Counsel** 331 Treble Cove Road, Building 600-2 North Billerica, Massachusetts 01862 (Name and address of agent for service)

(978) 671-8408 (Telephone number, including area code, of agent for service)

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 120-2	of the Exchange Act:		
Large Accelerated filer		Accelerated filer	$\boxtimes$
Non-accelerated filer		Smaller reporting company	
		Emerging growth company	$\boxtimes$

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 the Securities Act. ⊠

#### **CALCULATION OF REGISTRATION FEE**

Title of Securities to be Registered	Amount to be Registered (1)	Proposed Maximum Offering Price Per Share (2)	Proposed Maximum Aggregate Offering Price	Amount of Registration Fee
Common Stock, \$0.01 par value per share, reserved for issuance				_
pursuant to the Lantheus Holdings, Inc. 2015 Equity Incentive				
Plan, as amended	825,000	\$23.17	\$19,115,250	\$2,316.77

- (1) Pursuant to Rule 416(a) under the Securities Act of 1933, as amended (the "Securities Act"), this Registration Statement also covers an indeterminate number of securities that may become issuable under the 2015 Equity Incentive Plan, as amended, as a result of any stock splits, stock dividends, recapitalizations or similar transactions.
- (2) Estimated solely for purposes of calculating the registration fee pursuant to Rule 457(c) and Rule 457(h) under the Securities Act, based on the average of the high and low sales prices of the Registrant's common stock on The NASDAQ Global Market on July 29, 2019.

#### **EXPLANATORY NOTE**

Lantheus Holdings, Inc. (the "Registrant") is filing this Registration Statement on Form S-8 (this "Registration Statement") to register an additional 825,000 shares of its common stock, par value \$0.01 per share, that may be issued and sold under the Lantheus Holdings, Inc. 2015 Equity Incentive Plan, as amended (the "Plan"), following the amendment to the Plan that was approved by the Registrant's stockholders at its annual meeting on April 24, 2019. This Registration Statement is submitted in accordance with General Instruction E to Form S-8 regarding registration of additional securities, and pursuant to that instruction, the contents of the Registration Statements on Form S-8 (File No. 333-205211, File No. 333-314343 and File No. 333-220049) filed with the Securities and Exchange Commission on June 25, 2015, October 31, 2016 and August 18, 2017, respectively, are incorporated herein by reference.

# PART II INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

#### Item 8. Exhibits.

See Exhibit Index below.

#### **EXHIBIT INDEX**

		INCORPORATED BY REFERENCE			
EXHIBIT NUMBER	DESCRIPTION OF EXHIBITS	FORM	FILE NUMBER	EXHIBIT	FILING DATE
4.1	Amended and Restated Certificate of Incorporation of Lantheus Holdings, Inc.	8-K	001-36569	3.1	April 27, 2018
4.2	Amended and Restated Bylaws of Lantheus Holdings, Inc.	8-K	001-36569	3.2	April 27, 2018
4.3	Common Stock Certificate.	8-K	001-36569	4.1	June 30, 2015
4.4	Lantheus Holdings, Inc. 2015 Equity Incentive Plan.	S-1	333-196998	10.37	June 24, 2015
4.5	Form of 2015 Restricted Stock Agreement.	S-1	333-196998	10.38	June 24, 2015
4.6	Form of 2015 Option Award Agreement.	S-1	333-196998	10.39	June 24, 2015
4.7	Amendment to Lantheus Holdings, Inc. 2015 Equity Incentive Plan.	8-K	001-36569	10.1	April 28, 2016
4.8	Second Amendment to Lantheus Holdings, Inc. 2015 Equity Incentive Plan.	8-K	001-36569	10.1	April 28, 2017
4.9	Third Amendment to Lantheus Holdings, Inc. 2015 Equity Incentive Plan.	10-Q	001-36569	10.1	April 30, 2019
4.10	Fourth Amendment to Lantheus Holdings, Inc. 2015 Equity Incentive Plan.	8-K	001-36569	10.1	April 26, 2019
5.1*	Legal Opinion of Ropes & Gray LLP.				
23.1*	Consent of Independent Registered Public Accounting Firm, Deloitte & Touche LLP.				
23.2*	Consent of Ropes & Gray LLP (included as part of Exhibit 5.1).				
24.1*	Power of Attorney (included as part of the signature page hereto).				

<sup>\*</sup> Filed herewith

#### **SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933 the Registrant has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of North Billerica, Commonwealth of Massachusetts, on July 31, 2019.

#### Lantheus Holdings, Inc.

By: /s/ Mary Anne Heino

Name: Mary Anne Heino

Title: President and Chief Executive Officer

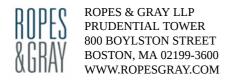
#### POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each of the undersigned constitutes and appoints each of Mary Anne Heino, Robert J. Marshall, Jr. and Michael P. Duffy, each acting alone, her or his true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for such person and in her or his name, place and stead, in any and all capacities, to sign this Registration Statement on Form S-8 (including all pre-effective and post-effective amendments and registration statements filed pursuant to Rule 462(b) under the Securities Act of 1933), 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, each acting alone, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming that any such attorney-in-fact and agent, or her or his substitute or substitutes, 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 by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
/s/ Mary Anne Heino Mary Anne Heino	President, Chief Executive Officer and Director (Principal Executive Officer)	July 31, 2019
/s/ Robert J. Marshall, Jr. Robert J. Marshall, Jr.	Chief Financial Officer (Principal Financial and Accounting Officer)	July 31, 2019
/s/ Brian Markison Brian Markison	Chairman of the Board of Directors	July 31, 2019
/s/ James C. Clemmer James C. Clemmer	Director	July 31, 2019
/s/ Samuel Leno Samuel Leno	Director	July 31, 2019
/s/ Julie H. McHugh Julie H. McHugh	Director	July 31, 2019
/s/ Gary Pruden  Gary Pruden	Director	July 31, 2019
/s/ Kenneth Pucel Kenneth Pucel	Director	July 31, 2019

/s/ Dr. Frederick Robertson Dr. Frederick Robertson	Director	July 31, 2019
/s/ Dr. Derace Schaffer Dr. Derace Schaffer	Director	July 31, 2019
/s/ Dr. James Thrall Dr. James Thrall	Director	July 31, 2019



July 31, 2019

Lantheus Holdings, Inc. 331 Treble Cove Road North Billerica, Massachusetts 01862

#### Ladies and Gentlemen:

This opinion letter is furnished to you in connection with the registration statement on Form S-8 (the "<u>Registration Statement</u>"), filed by Lantheus Holdings, Inc., a Delaware corporation (the "<u>Company</u>"), on the date hereof, with the Securities and Exchange Commission under the Securities Act of 1933, as amended (the "<u>Securities Act</u>"), for the registration of 825,000 shares of Common Stock, \$0.01 par value, of the Company (the "<u>Shares</u>"). The Shares are issuable under the Company's 2015 Equity Incentive Plan (the "<u>Plan</u>").

We are familiar with the actions taken by the Company in connection with the adoption of the Plan. We have examined such certificates, documents and records and have made such investigation of fact and such examination of law as we have deemed appropriate in order to enable us to render the opinions set forth herein. In conducting such investigation, we have relied, without independent verification, upon certificates of officers of the Company, public officials and other appropriate persons.

The opinions expressed below are limited to the Delaware General Corporation Law.

Based upon and subject to the foregoing, we are of the opinion that the Shares have been duly authorized and, when the Shares have been issued and sold in accordance with the terms of the Plan, the Shares will be validly issued, fully paid and nonassessable.

We hereby consent to the filing of this opinion letter as an exhibit to the Registration Statement. In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations thereunder.

Very truly yours,

/s/ Ropes & Gray LLP

Ropes & Gray LLP

#### CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in this Registration Statement on Form S-8 of our report dated February 20, 2019, relating to the financial statements of Lantheus Holdings, Inc. and its subsidiaries, appearing in the Annual Report on Form 10-K of Lantheus Holdings, Inc. and its subsidiaries for the year ended December 31, 2018.

/s/ Deloitte & Touche LLP

Boston, Massachusetts July 31, 2019