

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

SCHEDULE 14A

**Proxy Statement Pursuant to Section 14(a) of the
Securities Exchange Act of 1934
(Amendment No.)**

Filed by the Registrant

Filed by a Party other than the Registrant

Check the appropriate box:

- Preliminary Proxy Statement
- Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2))**
- Definitive Proxy Statement
- Definitive Additional Materials
- Soliciting Material under §240.14a-12

LANTHEUS HOLDINGS, INC.

(Name of Registrant as Specified In Its Charter)

(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

Payment of Filing Fee (Check the appropriate box):

- No fee required.
- Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.

(1) Title of each class of securities to which transaction applies:

(2) Aggregate number of securities to which transaction applies:

(3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):

(4) Proposed maximum aggregate value of transaction:

(5) Total fee paid:

Fee paid previously with preliminary materials.

Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

(1) Amount Previously Paid:

(2) Form, Schedule or Registration Statement No.:

(3) Filing Party:

(4) Date Filed:

Supplement, dated April 4, 2019, to the Proxy Statement, dated March 15, 2019

Lantheus Holdings, Inc. (the “Company”) is filing the additional material contained in this Schedule 14A with the Securities and Exchange Commission (the “SEC”) in connection with the solicitation of proxies for the upcoming 2019 Annual Meeting of Stockholders to be held on April 24, 2019.

As previously disclosed in our proxy statement, dated March 15, 2019, in connection with Proposal 2, awards under our 2015 Equity Incentive Plan may be granted to any of our employees, directors, consultants or other personal service providers or any of the same of our subsidiaries. As previously disclosed in the Company’s most recent Annual Report on Form 10-K for the year ended December 31, 2018 filed with the SEC on February 20, 2019, as of December 31, 2018, we had 488 employees and nine non-employee directors. Approximately 80 of our employees and all nine of our non-employee directors hold outstanding equity awards. We also engage hundreds of full- and part-time consultants and other personal service providers, the number of which varies from time to time. Although they are eligible to receive awards under the 2015 Equity Incentive Plan, the Company has not historically made grants to its consultants or other personal service providers and does not intend to start doing so in the future.

The closing price of the Company’s common stock, as reported on NASDAQ, on March 14, 2019, the last trading day immediately prior to the filing of our proxy statement with the SEC, was \$23.96 per share.

This information should be read in conjunction with our proxy statement, dated March 15, 2019, which was made available to the stockholders of the Company in connection with the solicitation of proxies by the Board of Directors of the Company for the 2019 Annual Meeting of Stockholders and any adjournment or postponement thereof.