

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| OMB APPROVAL                                 |           |
|--|-----------|
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|   |   |   |
|---|---|---|
| <b>1. Name and Address of Reporting Person*</b><br><u>Orlandi Cesare</u><br><br>(Last) (First) (Middle)<br><u>C/O LANTHEUS HOLDINGS, INC.</u><br><u>331 TREBLE COVE ROAD</u><br><br>(Street)<br><u>NORTH BILLERICA MA 01862</u><br><br>(City) (State) (Zip) | <b>2. Issuer Name and Ticker or Trading Symbol</b><br><u>Lantheus Holdings, Inc. [ LNTH ]</u> | <b>5. Relationship of Reporting Person(s) to Issuer</b><br>(Check all applicable)<br>Director 10% Owner<br><input checked="" type="checkbox"/> Officer (give title below) Other (specify below)<br><u>Chief Medical Officer</u> |
|   | <b>3. Date of Earliest Transaction (Month/Day/Year)</b><br><u>07/08/2019</u>                  |   |
|   |   | <b>6. Individual or Joint/Group Filing (Check Applicable Line)</b><br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br>Form filed by More than One Reporting Person                                    |

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) |   | 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) |            |                        | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|------------------------|---|--|---|
|                                 |                                      |  | Code                           | V | Amount  | (A) or (D) | Price                  |   |  |   |
| Common Stock                    | 07/08/2019                           |  | M <sup>(1)</sup>               |   | 6,672   | A          | \$21.1                 | 75,155  | D  |   |
| Common Stock                    | 07/08/2019                           |  | M <sup>(1)</sup>               |   | 13,346  | A          | \$21.1                 | 88,501  | D  |   |
| Common Stock                    | 07/08/2019                           |  | M <sup>(1)</sup>               |   | 6,672   | A          | \$21.1                 | 95,173  | D  |   |
| Common Stock                    | 07/08/2019                           |  | M <sup>(1)</sup>               |   | 8,896   | A          | \$21.1                 | 104,069   | D  |   |
| Common Stock                    | 07/08/2019                           |  | S <sup>(1)</sup>               |   | 28,002  | D          | \$28.33 <sup>(2)</sup> | 76,067  | D  |   |
| Common Stock                    | 07/08/2019                           |  | S <sup>(1)</sup>               |   | 7,584   | D          | \$27.6 <sup>(3)</sup>  | 68,483  | D  |   |

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) |   | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) |        | 6. Date Exercisable and Expiration Date (Month/Day/Year) |                 | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|--------|--|-----------------|---|--|--|---|--|
|  |  |                                      |  | Code                           | V | (A)  | (D)    | Date Exercisable   | Expiration Date |   |  |  |   |  |
| Stock Option (right to buy)                | \$21.1   | 07/08/2019                           |  | M <sup>(1)</sup>               |   |  | 6,672  | 06/25/2018   | 03/04/2023      | Common Stock 6,672  | \$0.00                                     | 0  | D   |  |
| Stock Option (right to buy)                | \$21.1   | 07/08/2019                           |  | M <sup>(1)</sup>               |   |  | 13,346 | (4)  | 03/04/2023      | Common Stock 13,346   | \$0.00                                     | 0  | D   |  |
| Stock Option (right to buy)                | \$21.1   | 07/08/2019                           |  | M <sup>(1)</sup>               |   |  | 6,672  | (5)  | 03/04/2023      | Common Stock 6,672  | \$0.00                                     | 0  | D   |  |
| Stock Option (right to buy)                | \$18.66  | 07/08/2019                           |  | M <sup>(1)</sup>               |   |  | 8,896  | (6)  | 08/05/2023      | Common Stock 8,896  | \$0.00                                     | 0  | D   |  |

**Explanation of Responses:**

- The transactions reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on June 7, 2019.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$28.00 to \$28.45, inclusive. The reporting person undertakes to provide to Lantheus Holdings, Inc. ("LNTH"), any security holder of LNTH or the staff of the Securities and Exchange Commission ("SEC"), upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote (2) to this Form 4.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$27.06 to \$27.99, inclusive. The reporting person undertakes to provide to LNTH, any security holder of LNTH or the staff of the SEC, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote (3) to this Form 4.
- These options vested in four equal installments on March 4, 2014, 2015, 2016 and 2017.
- Options to purchase 13,345 shares of Common Stock were granted to the reporting person on March 4, 2013, which options were subject to vesting in up to four equal annual installments based upon the level of LNTH's satisfaction of certain performance criteria for each of fiscal years 2013, 2014, 2015 and 2016. A certain level of the performance criteria were satisfied for each of fiscal years 2013 and 2014, resulting in the partial vesting as to 6,672 shares of Common Stock.
- These options vested in four equal installments on August 5, 2014, 2015, 2016 and 2017.

**Remarks:**

/s/ Michael P. Duffy, attorney-  
in-fact

07/10/2019

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

\* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.**