

---

---

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

---

**SCHEDULE 13G/A**

**Under the Securities Exchange Act of 1934  
(Amendment No. 2)\***

---

**LANTHEUS HOLDINGS, INC.**  
(Name of Issuer)

**COMMON STOCK, PAR VALUE \$0.01 PER SHARE**  
(Title of Class of Securities)

**516544103**  
(CUSIP Number)

**DECEMBER 31, 2017**  
(Date of Event Which Requires Filing of this Statement)

---

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)  
 Rule 13d-1(c)  
 Rule 13d-1(d)

---

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, *see* the *Notes*).

---

---

SCHEDULE 13G/A

CUSIP No. 516544103

1	NAMES OF REPORTING PERSONS AVISTA CAPITAL PARTNERS GP, LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 0
	6	SHARED VOTING POWER 0*
	7	SOLE DISPOSITIVE POWER 0
	8	SHARED DISPOSITIVE POWER 0*
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 0*	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 0.0%*	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) OO	

\* See Item 4.

SCHEDULE 13G/A

CUSIP No. 516544103

1	NAMES OF REPORTING PERSONS AVISTA CAPITAL PARTNERS, L.P.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 0
	6	SHARED VOTING POWER 0*
	7	SOLE DISPOSITIVE POWER 0
	8	SHARED DISPOSITIVE POWER 0*
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 0*	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 0.0%*	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) PN	

\* See Item 4

SCHEDULE 13G/A

CUSIP No. 516544103

1	NAMES OF REPORTING PERSONS AVISTA CAPITAL PARTNERS (OFFSHORE), L.P.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Bermuda	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 0
	6	SHARED VOTING POWER 0*
	7	SOLE DISPOSITIVE POWER 0
	8	SHARED DISPOSITIVE POWER 0*
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 0*	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 0.0%*	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) PN	

\* See Item 4.

SCHEDULE 13G/A

CUSIP No. 516544103

1	NAMES OF REPORTING PERSONS ACP-LANTERN CO-INVEST, LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 0
	6	SHARED VOTING POWER 0*
	7	SOLE DISPOSITIVE POWER 0
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 0*	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 0.0%*	
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) OO	

\* See Item 4.

---

**Item 1(a). Name of Issuer**

Lantheus Holdings, Inc.

**Item 1(b). Address of Issuer's Principal Executive Offices**

331 Treble Cove Road  
North Billerica, MA 01862

**Item 2. (a) Name of Person**

This statement is filed by the entities and persons listed below, all of whom together are referred to herein as the "Reporting Persons":

- (i) AVISTA CAPITAL PARTNERS GP, LLC
- (ii) AVISTA CAPITAL PARTNERS, L.P.
- (iii) AVISTA CAPITAL PARTNERS (OFFSHORE), L.P.
- (iv) ACP-LANTERN CO-INVEST, LLC

**(b) Address of Principal Business Office or, if none, Residence**

All Reporting Persons:

65 East 55th Street, 18th Floor  
New York, NY 10022.

**(c) Citizenship**

AVISTA CAPITAL PARTNERS GP, LLC, AVISTA CAPITAL PARTNERS, L.P. and  
ACP-LANTERN CO-INVEST, LLC: Delaware  
AVISTA CAPITAL PARTNERS (OFFSHORE), L.P.: Bermuda

**(d) Title of Class of Securities**

Common Stock, par value \$0.01 per share

**(e) CUSIP Number**

516544103

**Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:**

- Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o);
- Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);

- Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
- Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
- An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);
- A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- A non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J);
- A group, in accordance with §240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J), please specify the type of institution:

**Item 4. Ownership**

(a)-(c)

Reporting Person	Amount Beneficially Owned(a)	Percent of Class(b)	Number of shares as to which the person has: Sole power to vote or to direct the vote	Number of shares as to which the person has: Shared power to vote or to direct the vote	Number of shares as to which the person has: Sole power to dispose or to direct the disposition of:	Number of shares as to which the person has: Shared power to dispose or to direct the disposition of:
Avista Capital Partners GP, LLC	0	0.0%	0	0	0	0
Avista Capital Partners, L.P.	0	0.0%	0	0	0	0
Avista Capital Partners (Offshore), L.P.	0	0.0%	0	0	0	0
ACP-Lantern Co-Invest, LLC	0	0.0%	0	0	0	0

- (a) Avista Capital Partners GP, LLC serves as the general partner of Avista Capital Partners, L.P. and Avista Capital Partners (Offshore), L.P. and as the managing member of ACP-Lantern Co-Invest, LLC. By virtue of these relationships, Avista Capital Partners GP, LLC may be deemed to share beneficial ownership of the 0 shares of Common Stock held by Avista Capital Partners, L.P., the 0 shares of Common Stock held by Avista Capital Partners (Offshore), L.P., and the 0 shares of Common Stock held by ACP-Lantern Co-Invest, LLC.
- (b) Ownership percentages are based upon the 37,764,845 shares of Common Stock outstanding as of December 31, 2017 as provided by the Issuer's transfer agent.

---

**Item 5. Ownership of Five Percent or Less of a Class**

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following .

**Item 6. Ownership of More than Five Percent on Behalf of Another Person**

Not Applicable

**Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person**

Not Applicable

**Item 8. Identification and Classification of Members of the Group**

Not Applicable

**Item 9. Notice of Dissolution of Group**

Not Applicable

**Item 10. Certifications**

Not Applicable



---

**SIGNATURE**

After reasonable inquiry and to the best of our knowledge and belief, we certify that the information set forth in this statement is true, complete and correct.

Date: February 12, 2018

**AVISTA CAPITAL PARTNERS GP, LLC**

By: /s/ Ben Silbert

Name: Ben Silbert

Title: Authorized Representative

**AVISTA CAPITAL PARTNERS, L.P.**

By: Avista Capital Partners GP, LLC  
its General Partner

By: /s/ Ben Silbert

Name: Ben Silbert

Title: Authorized Representative

**AVISTA CAPITAL PARTNERS (OFFSHORE), L.P.**

By: Avista Capital Partners GP, LLC  
its General Partner

By: /s/ Ben Silbert

Name: Ben Silbert

Title: Authorized Representative

---

**EXHIBIT INDEX**

Exhibit No.

A                      Joint Filing Agreement (Incorporated by reference from Exhibit A to Schedule 13G filed on February 8, 2016).