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):

August 29, 2014

Mast Therapeutics, Inc.

(Exact name of registrant as specified in its charter)

Delaware	001-32157	84-1318182
(State or other jurisdiction	(Commission	(I.R.S. Employer
of incorporation)	File Number)	Identification No.)
12390 El Camino Real, Suite 150, San Diego, California		92130
(Address of principal executive offices)		(Zip Code)
Registrant's telephone number, including area	code:	858-552-0866
	Not Applicable	
Former na	me or former address, if changed since last	t report
neck the appropriate box below if the Form 8-K filing is interpretations:	ended to simultaneously satisfy the filing o	bligation of the registrant under any of the following
Written communications pursuant to Rule 425 under the S Soliciting material pursuant to Rule 14a-12 under the Exc Pre-commencement communications pursuant to Rule 14 Pre-commencement communications pursuant to Rule 13	hange Act (17 CFR 240.14a-12) d-2(b) under the Exchange Act (17 CFR 24	

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Item 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.

On August 29, 2014, Santosh J. Vetticaden, Chief Medical Officer and Senior Vice President of Mast Therapeutics, Inc. (the "Company"), notified the Company of his decision to resign for personal reasons, effective September 12, 2014. Edwin L. Parsley, D.O., the Chief Medical Officer of Aires Pharmaceuticals, Inc., a wholly-owned subsidiary of the Company, will assume Dr. Vetticaden's former responsibilities as the Company's interim Chief Medical Officer. Dr. Parsley previously was with Pfizer, where he oversaw clinical trials for Revatio® (sildenafil). He is a practicing physician and certified by the American Board of Internal Medicine in internal medicine, pulmonary disease, critical care medicine, and sleep medicine. Dr. Parsley has been actively engaged with the Company since it acquired Aires in February 2014.

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.

Mast Therapeutics, Inc.

September 2, 2014

By: /s/ Patrick L. Keran

Name: Patrick L. Keran

Title: President and Chief Operating Officer