FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

wasinington,	D.C.	20343	

OMB APPROVAL								
OMB Number:	3235-028							

	Check this box if no longer subject to
١	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

ONBALLKOVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

Name and Address of Reporting Person* Vetticaden Santosh					2. Issuer Name and Ticker or Trading Symbol Mast Therapeutics, Inc. [MSTX]					(Ch	elationship o eck all applic Director	able)	g Perso	on(s) to Issu 10% Ov Other (s	vner		
(Last) (First) (Middle) 12390 EL CAMINO REAL, SUITE 150					3. Date of Earliest Transaction (Month/Day/Year) 06/19/2013						below)			below)	' <i>'</i>		
(Street) SAN DII			92130		4. If Amendment, Date of Original Filed (Month/Day/Year)				Line) <mark>X</mark> Form fil	int/Group Filing (Check Applicable ed by One Reporting Person ed by More than One Reporting						
(City)	(S	tate)	(Zip)														
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date			2. Transacti Date (Month/Day	Execution Date,		3. Transaction Code (Instr.) 8			5. Amour Securities Beneficia Owned For Reported	Form (D) or ollowing (I) (In:		: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
							Code	/ Amo	unt	(A) or (D)	Price	Transacti	ransaction(s) Instr. 3 and 4)			(111511.4)	
	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/Ye	Code	ansaction Derivative E ode (Instr. Securities (N		6. Date Exer Expiration D (Month/Day/	ate	nd 7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		es Security	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficial Owned Following Reported	e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expirati Date	on	Title	Amount or Number of Shares	Transaction(s) (Instr. 4)				
Employee Stock Option (Right to Buy)	\$0.5	06/19/2013		A		125,000		(1)	06/19/20)23	Common Stock	125,000	\$0.00	125,00	00	D	

Explanation of Responses:

1. This option vests and becomes exercisable as to 5,208 shares on September 5, 2013, which is the first anniversary of the reporting person's employment with the issuer, and as to approximately 1/48th of the balance of the shares subject to this option on October 5, 2013 and each monthly anniversary thereafter such that all of the shares subject to this option will have fully vested and become exercisable as of September 5, 2017, subject to continued service with the issuer.

Remarks:

/s/ Santosh J. Vetticaden

06/21/2013

** 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.

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