FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	VAL
l	OMB Number:	3235-0287
l	Estimated average burde	en
l	hours per response:	0.5

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

1. Name and Address of Reporting Person* Shuster Lewis					2. Issuer Name and Ticker or Trading Symbol Mast Therapeutics, Inc. [MSTX]								ck all applic	able)	g Pers	on(s) to Iss		
(Last) (First) (Middle) 12390 EL CAMINO REAL, SUITE 150				3. Date of Earliest Transaction (Month/Day/Year) 06/19/2014									Officer below)	(give title		Other (s below)	pecify	
(Street) SAN DII (City)			92130 (Zip)	4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Inc Line)	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				n	
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
Date			Transaction ate lonth/Day/Ye	Execution Date,		Code (I	Transaction Disposed Of (D) (Instr. 3, 4 Code (Instr. 5)				5. Amour Securitie Beneficia Owned F	es Formally (D) of Following (I) (II)		: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
							Code	v	Amount	(A) ((D)	r F	Price	Transact (Instr. 3 a	tion(s)			(mati. 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		3A. Deemed Execution Date, if any (Month/Day/Year)	Code (n of E		6. Date Exercisable an Expiration Date (Month/Day/Year)			7. Title and Am of Securities Underlying Derivative Seci (Instr. 3 and 4)		urity	B. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	i i illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Code	v	(A)		Date Exercisabl		xpiration ate	Title	or Nui of	mber ares					
Stock Option (Right to Buy)	\$0.65	06/19/2014		A		46,609		(1)	0	6/19/2024	Common Stock	46	,609	\$0.00	46,609	9	D	

Explanation of Responses:

1. This option vests and becomes exercisable in 12 substantially equal monthly installments on each monthly anniversary of June 19, 2014, subject to the reporting person's continued service with the issuer.

Remarks:

/s/ Brandi L. Roberts, Attorney-06/20/2014 in-Fact for Lewis J. Shuster

** 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.