FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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	OMB APPRO	VAL
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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

l	nd Address of Edwin L		2. Issuer Name and Ticker or Trading Symbol Mast Therapeutics, Inc. [MSTX]								heck a	ll applica Director	able)	Perso	on(s) to Issu 10% Ov	ner		
(Last) (First) (Middle) 12390 EL CAMINO REAL, SUITE 150					3. Date of Earliest Transaction (Month/Day/Year) 01/02/2015								X Officer (give title below) Other (specify below) Chief Medical Officer & SVP					
(Street) SAN DIEGO CA 9213 (City) (State) (Zip)		92130 (Zip)	4	4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Liı	ne) X	lividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person 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. Transac Date (Month/Date)					Execution Date,		Code (Transaction Disposed Of (D) (Instr. 3, 4					Form Ily (D) or ollowing (I) (In		Direct Indirect str. 4)	7. Nature of ndirect Beneficial Ownership Instr. 4)		
					Code V Amount (A) or (D)				Price	т	Transaction(s) (Instr. 3 and 4)			ľ				
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 (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable Expiration Date (Month/Day/Year)			7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		Dei Sed	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(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 Exercisab		expiration Date	Title	Amount or Number of Share	s		(Instr. 4)	uii(S)		
Stock Option (Right to Buy)	\$0.58	01/02/2015		A		938,300		(1)	0	1/02/2025	Common Stock	938,30	0 3	\$0.00	938,30	00	D	

Explanation of Responses:

1. This option will vest and become exercisable as to 156,383 shares on October 1, 2015, which is the first anniversary of the reporting person's employment with the issuer, and the remaining shares will vest and become exercisable in 48 substantially equal monthly installments on each monthly anniversary of October 1, 2015 such that all of the shares subject to this option will have fully vested and become exercisable as of October 1, 2019, subject to the reporting person's continued service.

Remarks:

/s/ Brandi L. Roberts, Attorneyin-Fact for Edwin L. Parsley 01/02/2015

** 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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