FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20040	

**OMB APPROVAL** 3235-0287 Estimated average burden

hours per response

0.5

	Check this box if no longer subject to								
$\supset$	Section 16. Form 4 or Form 5								
	obligations may continue. See								
	Instruction 1(b).								

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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*  Parsley Edwin L.					2. Issuer Name <b>and</b> Ticker or Trading Symbol Mast Therapeutics, Inc. [ MSTX ]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner					
(Last) (First) (Middle) 3611 VALLEY CENTRE DRIVE, SUITE 500					3. Date of Earliest Transaction (Month/Day/Year) 06/11/2015							helow)	(give title Medical	ive title Other (s below) Medical Officer & SVP			
(Street) SAN DII			92130 (Zip)	4.	4. If Amendment, Date of Original Filed (Month/Day/Year)					6. I Lin	ndividual or Joint/Group Filing (Check Applicable e)  X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(City) (State) (Zip)  Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3)  2. Transa Date (Month/D				ransactio	2A. Deemed Execution Date,		3. Transacti Code (Ins 8)	4. Secu Dispos	rrities Acquired (A) o ed Of (D) (Instr. 3, 4 a t (A) or Prid		5. Amour Securitie Beneficia Owned Reported Transacti (Instr. 3 a	mount of urities efficially led Following orted saaction(s) ir. 3 and 4)		Direct Indirect Introduced Interest Int	7. Nature of ndirect Seneficial Ownership (Instr. 4)		
								, options	•	,	,	Owneu					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	ion Date Execution if any (Month/Day/Year) (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Date, Transac Code (I				6. Date Exerc Expiration D (Month/Day/	ate	e of Securities		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)				
Employee Stock Option (Right to Buy)	\$0.5	06/11/2015		A		555,850		(1)	06/11/2025	Common Stock	555,850	\$0.00	555,85	0	D		

## **Explanation of Responses:**

1. This option will vest and become exercisable as to 34,740 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 with the issuer.

## Remarks:

/s/ Brandi L. Roberts, Attorney-06/12/2015 in-Fact for Edwin L. Parsley

\*\* 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.