# FORM 4

### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

wasni	ngton,	D.C.	2054	

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

# STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average I	ourden								
hours nor resnance	0.5								

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*  Greenleaf Peter				2. Issuer Name <b>and</b> Ticker or Trading Symbol  Mast Therapeutics, Inc. [ MSTX ]							(Ch	S. Relationship of Reporting Person(s) to Issuer (Check all applicable)     X Director 10% Owner  Office of the Article Check (considered)						
(Last) 805 KIN SUITE 5	(First) (Middle) G FARM BOULEVARD					3. Date of Earliest Transaction (Month/Day/Year)  11/05/2015  Officer (give title below)  below)  Other (specify below)								pecify				
(Street)	ILLE M		20850		4. If .	4. If Amendment, Date of Original Filed (Month/Day/Year)					Line	Individual or Joint/Group Filing (Check Applicable ne)  X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	-	(Zip)															
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transar Date (Month/Date)				2A. Deemed Execution Date,			Code (Instr.   5)		ed (A) or	5. Amou Securitie Beneficia	nt of es ally Following	Form:	Direct Condinect Etr. 4)	7. Nature of Indirect Beneficial Ownership				
					Code V	Ai	mount	(A) or (D)	Price	Transact	saction(s) r. 3 and 4)		1	(Instr. 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 Daif any (Month/Day/	ate, Ti	Transaction of E		6. Date Exercisable and Expiration Date (Month/Day/Year)  7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)			es J Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
				c	ode \	v	(A)	(D)	Date Exercisable	Expi Date	ration	Title	Amount or Number of Shares					
Stock Option (Right to Buy)	\$0.45	11/05/2015			A		64,791		(1)	11/05	5/2025	Common Stock	64,791	\$0.00	64,791	1	D	
Stock Option (Right to Buy)	\$0.45	11/05/2015			A		37,794		(2)	11/05	5/2025	Common Stock	37,794	\$0.00	37,794	4	D	

#### **Explanation of Responses:**

- 1. This option vests and becomes exercisable in 36 substantially equal monthly installments on each monthly anniversary of November 5, 2015, subject to the reporting person's continued service with the issuer.
- 2. This option vests and becomes exercisable in seven (7) substantially equal monthly installments on each monthly anniversary of November 5, 2015, subject to the reporting person's continued service with the

#### Remarks:

/s/ Brandi L. Roberts, Attorneyin-Fact for Peter Greenleaf

\*\* 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.