Common Stock

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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

washington, D.C. 2054

OMB APP	ROVAL
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Beneficial Ownership

(Instr. 4)

(D) or Indirect (I) (Instr. 4)

D

Beneficially Owned Following

48,948

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

		Table I - No	on-Derivative	Securities Acc	quired, Dis	sposed of, or Benefi	cially	Owned			
(City)	(State)	(Zip)									
(Street) WINSTON- SALEM NC 27101			4. If <i>i</i>	Amendment, Date o	f Original File	d (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(Last) (First) (Middle) C/O TARGACEPT, INC. 200 EAST FIRST STREET, SUITE 300				ate of Earliest Trans	action (Month	/Day/Year)	A	VP, Preclin	below ical Research)	
1. Name and Address of Reporting Person* Bencherif Merouane				suer Name and Tick RGACEPT IN		,		tionship of Reportin all applicable) Director Officer (give title	g Person(s) to Issuer 10% Owner Other (specify		

Code (Instr. 8)

M

if any (Month/Day/Year)

Reported Transaction(s) (A) or (D) Code Amount Price (Instr. 3 and 4) 07/28/2009 M 25,000 A \$1.75 32,735 D D 07/28/2009 M 4,200 Α \$1.75 36,935 D 07/28/2009 M 5.562 Α \$1.75 42,497

6,451

Α

\$5.1

7,735 D 07/28/2009 41,213 D \$10.3883 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/Year)	4. Transa Code (8)				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		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)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (Right to Buy)	\$1.75	07/28/2009		M			25,000	(1)	03/28/2015	Common Stock	25,000	\$0	15,975	D	
Stock Option (Right to Buy)	\$1.75	07/28/2009		М			4,200	(2)	01/30/2013	Common Stock	4,200	\$0	0 ⁽³⁾	D	
Stock Option (Right to Buy)	\$1.75	07/28/2009		М			5,562	(4)	10/30/2013	Common Stock	5,562	\$0	22,252 ⁽⁵⁾	D	
Stock Option (Right to Buy)	\$5.1	07/28/2009		М			6,451	(4)	10/30/2013	Common Stock	6,451	\$0	16,049 ⁽⁶⁾	D	

Explanation of Responses:

- 1. This option vested in installments and became vested in full on December 31, 2008.
- 2. This option vested in installments and became vested in full upon completion of the issuer's initial public offering.
- 3. Does not include 10,750 shares subject to the unexercised portion of this option for which the exercise price is \$5.10 per share.

(Month/Day/Year)

07/28/2009

- 4. This option vested in installments and became vested in full on September 30, 2007.
- 5. Does not include 16,049 shares subject to the unexercised portion of this option for which the exercise price is \$5.10 per share.
- 6. Does not include 22,252 shares subject to the unexercised portion of this option for which the exercise price is \$1.75 per share.

Remarks:

The shares covered by this Form 4 have been sold pursuant to a Rule 10b5-1 Sales Plan dated March 14, 2008, which is intended to comply with Rule 10b5-1(c) promulgated under the Securities Exchange Act of 1934, as amended.

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.