FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL OMB Number: Estimated average burden

0.5

hours per response:

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

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* Musso Alan A						2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]								heck a	ll applic	cable)	g Pers	son(s) to Iss 10% Ov Other (s	vner
(Last) (First) (Middle) C/O TARGACEPT, INC. 200 EAST FIRST STREET, SUITE 300						3. Date of Earliest Transaction (Month/Day/Year) 07/29/2009								Λ	below)	low) below) VP, CFO & Treasurer			
(Street) WINSTON- SALEM (City) (State) (Zip)				4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individ ne) X	′					
		Tab	le I - N	on-Deriv	vative	Sec	curit	ies Ad	quired	, Di	sposed o	of, or Be	neficia	lly O	wned]			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day)						Exe) if a	a. Deemed recution Date, any lonth/Day/Year)					es Acquired (A) o Of (D) (Instr. 3, 4 a		nd 5) Securiti Benefic Owned		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price	1	Reporte Fransac (Instr. 3	tion(s)			(Instr. 4)
Common Stock 07/29/20					/2009)09			М		5,263	A	\$1.7	5	8,	3,062		D	
Common Stock 07/29/20					/2009	009			S		3,963	D	\$11.0	.053 4,		,099		D	
Common Stock 07/29/20					/2009	009			S		1,300	D	\$12.00	006 2,7		,799		D	
		7	able II								oosed of converti				/ned				
1. Title of Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security Date (Month/Day/Year) Execution Date, if any (Month/Day/Year)		4. Transa Code (8)	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration (Month/E	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			d f f g g g e Security and 4) Amount or Number of Shares			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)			

Explanation of Responses:

\$1.75

1. This option vested in installments and became vested in full on December 31, 2008.

07/29/2009

Stock Option

(Right to

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.

(1)

5,263

03/28/2015

/s/ Peter A. Zorn, Attorney-in-07/31/2009 Fact for Alan A. Musso

\$<mark>0</mark>

39,700

D

** Signature of Reporting Person

5,263

Stock

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).

M

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.