FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number	3235-02								

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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).

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

Name and Address of Reporting Person* Musso Alan A						2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]									k all appli Directo	ionship of Reporting F all applicable) Director Officer (give title		son(s) to Iss 10% O Other (s	vner
(Last) (First) (Middle) C/O TARGACEPT, INC. 200 EAST FIRST STREET, SUITE 300						3. Date of Earliest Transaction (Month/Day/Year) 10/26/2010								A	below)	VP, CFO	& Tr	below) reasurer	
(Street) WINST(SALEM	N		27101		4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indi Line) X	Form t	Joint/Group Filing (Check Applicable filed by One Reporting Person filed by More than One Reporting in			
(City)	(5		(Zip) 	on-Deriv	/ative	Sec	urit	ies Ac	auire	1 Di	sposed o	of or Re	nefic	rially	Owner	1			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)			ction	tion 2A. Deen		ned n Date,	3. Transaction Code (Instr.		4. Securities Acquired (A) o			5. Amo and 5) Securit Benefic		unt of es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price	•	Transac	Reported Fransaction(s) Instr. 3 and 4)			(Instr. 4)
Common	Common Stock			10/26/2	10/26/2010				M		2,000	A	\$2	2.93 4		,799		D	
Common	ommon Stock		10/26/2	10/26/2010				S		2,000	D	\$24	.6475	2,799		D			
Common Stock			10/28/	0/28/2010				M		1,500	A	\$2	2.93	4,	,299		D		
Common Stock			10/28/	/2010				S		1,500	D	\$2	24.6	2,	2,799		D		
		Т	able II								posed of converti				wned				
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. Transaction Code (Instr 8)		n of		6. Date Expirati (Month/	on Da	ear) Securiti Underly Derivati		unt of rities		. Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e s lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amor or Num of Share	ber					
Stock Option (Right to Buy)	\$2.93	10/26/2010			M			2,000	(1)		01/08/2019	Common Stock	2,00	00	\$0	37,594	4	D	
Stock	I																		

Explanation of Responses:

\$2.93

1. This option vests (vested) in equal installments on the last day of 16 consecutive calendar quarters beginning with March 31, 2009.

Remarks:

Option (Right to

Buy)

The shares covered by this Form 4 have been sold pursuant to a Rule 10b5-1 Sales Plan dated December 16, 2009, which is intended to comply with Rule 10b5-1(c) promulgated under the Securities Exchange Act of 1934, as amended.

(1)

01/08/2019

/s/ Peter A. Zorn, Attorney-in-Fact for Alan A. Musso 10/28/2010

1,500

Stock

\$<mark>0</mark>

36,094

D

** 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).

10/28/2010

** 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.

1,500