FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHA	NGES IN	BENEFICIAL	OWNERSHIP
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OMB APPROVAL

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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).

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]						(Ch	eck all applio	cable)	Person(s) to Iss 10% Ov Other (s	vner		
(Last)	(Fi	irst) (Middle)			3. Date of Earliest Transaction (Month/Day/Year) 01/09/2009							helow)		below)		
200 EAST FIRST STREET, SUITE 300																
(Street) WINSTO	ON- N	С	27101	4.	If Ame	ndment, I	Date	of Original	Filed	(Month/Da	y/Year)	Line	e) <mark>X</mark> Form f	iled by One R iled by More t	iling (Check Ap Reporting Perso Than One Repo	n
(City)	(S	tate)	(Zip)													
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Date,		Code (Transaction Code (Instr. 3, 5) Disposed Of (D) (Instr. 3, 5)		tr. 3, 4 and	and Securities I Beneficially		orm: Direct) or Indirect (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
						Code	v	Amount	(A) or (D)	Price	(Instr. 3					
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)	tive Conversion Date Execution Date, or Exercise (Month/Day/Year) if any			ransaction of ode (Instr. Derivative		Expiration Date of S (Month/Day/Year) Und Deri		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)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
				Code	v	(A)	(D)	Date Exercisab		Expiration Date	Title	Amount or Number of Shares				
Stock Option (Right to Buy)	\$2.93	01/09/2009		A		52,500		(1)	(01/08/2019	Common Stock	52,500	\$0	52,500	D	

Explanation of Responses:

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

Remarks:

/s/ Peter A. Zorn, Attorney-in-Fact for Alan A. Musso 01/13/2009

Date

** Signature of Reporting Person

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.