FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPROVAL									
	OMB Number:	3235-0287								
l	Estimated average burden									
l	hours per response:	0.5								

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

1. Name ar		2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]									of Reportin icable) or r (give title	ng Pers	son(s) to Iss 10% Ov Other (s	vner				
(Last) C/O TAF	(Fi	-	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 07/28/2009									VP, CFO & 7		below)	
200 EAS	T FIRST S																	
(Street) WINSTON- SALEM NC 27101					4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City) (State) (Zip)																		
		Tab	le I - No	on-Deriv	vative	Sec	uriti	ies Ac	quired	, Di	sposed c	f, or Be	neficial	ly Owne	d			
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day						Execution Date,			Transaction Disposed (es Acquired (A) or Of (D) (Instr. 3, 4 and 5)) Securit Benefic Owned	5. Amount of Securities Beneficially Owned Following		n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price		ed ction(s) 3 and 4)			(Instr. 4)
Common Stock 07/28/20)9				3,037	A	\$1.75	5	,836		D	
Common Stock 07/28/20						09		S		3,037	D	\$11.02	36 2	2,799		D		
		Т	able II								oosed of converti			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deer Execution if any (Month/I		Date, Transa Code (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 derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)
					Code	v	(A)	(D)	Date Exercisal	ble	Expiration Date	Title	Amount or Number of Shares					
Stock Option (Right to	\$1.75	07/28/2009			M			3,037	(1)		03/28/2015	Common Stock	3,037	\$0	44,963	3	D	

Explanation of Responses:

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

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.

/s/ Peter A. Zorn, Attorney-in-Fact for Alan A. Musso 07/30/2009

** 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.