FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL
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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* Dunbar Geoffrey C							2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owne Officer (give title Other (spe					
(Last) (First) (Middle) C/O TARGACEPT, INC. 200 EAST FIRST STREET, SUITE 300						3. Date of Earliest Transaction (Month/Day/Year) 09/15/2009									X Officer (give title officer (specify below) VP, Clin. Dev. & Reg. Affairs					
(Street) WINSTON- SALEM Contract of the Property of the Prope						4. If Amendment, Date of Original Filed (Month/Day/Year)									S. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S		(Zip)																	
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day					ction	ion 2A. Deemed Execution Date			3. Transa Code (ction	4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			5. Amo		int of es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	Tra	ansac	tion(s) and 4)			(Instr. 4)	
Common Stock 09/15/20)09				950	A	\$1.75	5	24	,705		D		
Common Stock 09/15/20									S		950	D	\$16.01	47	23,7			D		
Common Stock 09/16/20									M		9,050	A	\$1.75	5	32,805		D			
Common Stock 09/16/20						009		S		9,050	D	\$16.26	81 23,7		3,755		D			
		T	able II								posed of converti			y Owr	ed					
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	med	4. Transa Code (8)	ection	5. Number ion of		6. Date Exercis Expiration Dat (Month/Day/Ye		isable and te	7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	e s ully	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares							
Stock Option (Right to Buy)	\$1.75	09/15/2009			M			950	(1)		03/28/2015	Common Stock	950	\$()	33,050		D		
Stock Option (Right to Buy)	\$1.75	09/16/2009			M			9,050	(1)		03/28/2015	Common Stock	9,050	\$()	24,000		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-09/17/2009 Fact for Geoffrey C. Dunbar

** 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.