FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
-------------	------	-------

STATEMENT OF CHA	NGES IN BENEFIC	IAL OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
l	Estimated average burde	en
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 and Address of Reporting Person* <u>DUNTON ALAN W</u>					2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]									k all appli Directo	cable) or	ig Pers	son(s) to Iss	vner	
(Last) (First) (Middle) C/O TARGACEPT, INC.						3. Date of Earliest Transaction (Month/Day/Year) 06/17/2010									Officer (give title Other (specify below) below)				
200 EAST FIRST STREET, SUITE 300																			
(Street) WINSTON- SALEM NC 27101			- 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							5. Indi _ine) X								
(City)	(St	ate) ((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 (Ir	Transaction Disposed Of (D) (Instr. Code (Instr. 5)				, 4 and Securit Benefic Owned		es ally Following	Form (D) o	n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D) Pr		e	Reported Transact (Instr. 3	ction(s)			(Instr. 4)
	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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	Code (Inst		n of		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		S (I	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Ownershi Form: ly Direct (D) or Indirec (I) (Instr. 4	Ownership	Beneficial Ownership (Instr. 4)	
				c	Code	v	(A)	(D)	Date Exercisable		opiration	Title	Amount or Number of Shares	er					
Stock Option (Right to Buy)	\$22.76	06/17/2010			A		7,500		(1)	06	6/16/2020	Common Stock	7,50	0	\$0	7,500		D	

Explanation of Responses:

1. This stock option vests and becomes exercisable in full on the earlier of (i) June 17, 2011 or (ii) the business day immediately preceding the date of the issuer's annual meeting of stockholders that occurs in 2011, provided that the reporting person remains in service as a director on such earlier date.

Remarks:

/s/ Peter A. Zorn, Attorney-in-06/18/2010 Fact for Alan W. Dunton

** 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.