FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
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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

	a Geoffrey		TARGACEPT INC [TRGT]								all applicable) Director Officer (give title		10% Owi		wner			
(Last) (First) (Middle) C/O TARGACEPT, INC. 200 EAST FIRST STREET, SUITE 300						3. Date of Earliest Transaction (Month/Day/Year) 08/27/2009								vP, (. & R	below) Leg. Affair	rs
(Street) WINSTON- SALEM NC 27101					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								idual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(S	tate)	(Zip)															
		Tab	le I - No	on-Deriv	ative	Secu	ırities A	cquire	d, Di	sposed o	of, or Be	enefici	ally	Owned	l			
				2. Transaction Date (Month/Day/Year		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			l 5)	5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
								Code	v	Amount	(A) or (D)	Price		Transac (Instr. 3	tion(s)			(instr. 4)
Common	2009			M		2,100	A	\$1.7	75	25	,855		D					
Common Stock 08/27/						008		S		2,100	D	\$14		23,755			D	
Common	Stock			08/28/	28/2009			M	м 7,900 А		\$1.7	75	31	1,655		D		
Common	Stock			08/28/	2009			S		7,900	D	\$14.0384		23,755			D	
			able II					•		posed of converti	•		•	wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transac Code (I 8)	ction nstr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Expirat (Month	ion Da		7. Title ar Amount of Securities Underlyin Derivative (Instr. 3 a	of s ng e Security	De Se (In	3. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Owne Form Direc or Inc (I) (In:	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
												or Numbe						

Explanation of Responses:

\$1.75

\$1.75

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

08/27/2009

08/28/2009

Remarks:

Stock Option

(Right to Buy)

(Right to

Stock Option

Buy)

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

Date Exercisable

(1)

(1)

(A) (D)

2,100

7,900

Code

Expiration Date

03/28/2015

03/28/2015

Title

Stock

Stock

/s/ Peter A. Zorn, Attorney-in-08/31/2009 Fact for Geoffrey C. Dunbar

** Signature of Reporting Person

of Shares

2,100

7,900

\$<mark>0</mark>

\$<mark>0</mark>

51,900

44,000

D

D

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.