FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB A	PPROVAL
OMB Number:	3235-0287
Estimated avera	age burden
hours per respe	nco: 0 F

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

								<i>'</i>			' '								
1. Name and Address of Reporting Person*  Zorn Peter A						2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [ TRGT ]									all appli Directo	cable)	ng Person(s) to Issu 10% Own Other (sp		vner
(Last) C/O 200	Last) (First) (Middle) C/O 200 EAST FIRST STREET, SUITE 300							3. Date of Earliest Transaction (Month/Day/Year) 12/31/2009									GC ai	below) nd Secrtar	`
(Street) WINSTON- SALEM NC 27101					4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable ne)  X Form filed by One Reporting Person Form filed by More than One Reporting Person					n
(City)	(S	tate)	(Zip)																
		Tab	le I - No	on-Deri	vative	Sec	curiti	ies Ac	quired	l, Di	sposed o	of, or Be	nefici	ally	Owned	i			
1. Title of Security (Instr. 3)  2. Transa Date (Month/D					Exe ) if a	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)			es Acquired (A) or Of (D) (Instr. 3, 4 and		Benefic		es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code V		Amount	(A) or (D) Price			Transac (Instr. 3	tion(s)			(Instr. 4)
Common Stock 12/3:					/2009	2009					312	A	\$5.	1	3	312		D	
Common Stock 12/31					/2009	.009					312	D	\$21.3	036		0		D	
Common Stock 12/31/20					/2009				M		4,092	A	\$5.5	55	4,092		D		
Common Stock 12/31/20						009			S		4,092	D \$21		205	0			D	
		7	able II								posed of converti				wned				
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)	ction	5. Number		6. Date Exerci Expiration Dat (Month/Day/Ye		sable and	7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)		Deriv Secu (Instr	Price of erivative ecurity astr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amoun or Numbe of Shares	nber					
Stock Option (Right to Buy)	\$5.1	12/31/2009			M			312	(1)		02/27/2016	Common Stock	312		\$0	313		D	
Stock Option (Right to	\$5.55	12/31/2009			M			4,092	(2)		08/15/2016	Common Stock	4,092	!	\$0	8,185		D	

## **Explanation of Responses:**

- 1. This option vested 25% on March 31, 2007 and then vested (vests) in equal installments on the last day of the following 12 calendar quarters.
- 2. This option vests in equal installments on the last day of 16 consecutive calendar quarters beginning September 30, 2006.

## Remarks:

The shares covered by this Form 4 have been sold pursuant to a Rule 10b5-1 Sales Plan dated August 10, 2009, which is intended to comply with Rule 10b5-1(c) promulgated under the Securities Exchange Act of 1934, as amended.

> 01/05/2010 /s/ Peter A. Zorn

> > 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.