FORM 4

Check this box if no longer subject to

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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

						JI 360			iiiveStiii	ent C	ompany Act	01 1940							
1. Name and Address of Reporting Person* deBethizy J Donald						2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]							(Ch	Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
	(Last) (First) (Middle) C/O TARGACEPT, INC. 200 EAST FIRST STREET, SUITE 300					3. Date of Earliest Transaction (Month/Day/Year) 12/16/2009								X Officer (give title Other (specify below) President and CEO				pecify	
(Street) WINSTO	STON- EM NC 27101				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line	Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(8	itate)	(Zip)																
Table I - Non-Deriv 1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				action	ar) if	2A. Deemed Execution Date, if any (Month/Day/Year)		3.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a		(A) or	5. Amour Securitie Beneficia Owned F Reported	s Formally (D) of ollowing (I) (II		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A) or (D)	Price	Transact (Instr. 3 a	ion(s)			,iiisti. 4)	
Common Stock				12/10	12/16/2009				М		6,769	A	\$3.525	35,	695		D		
Common Stock				12/1	12/16/2009				M		202,235	5 A	\$1.75	237	,930		D		
Common Stock				12/10	12/16/2009				S		28,296	D	\$22.003	5 209	,634		D		
Common Stock				12/10	12/16/2009				S		630	D	\$22.988	209	,004		D		
Common Stock 12/16				6/2009	009		S		209,004	D	\$21.977	'3	0		D				
			Table II								posed of			Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, Transaction Derivative Expiration I		Exerc on Da	isable and 7. Title and Amou			8. Price of Derivative Security (Instr. 5)	derivative Securitie Beneficia Owned Following Reported	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)						
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares		Transaction(s (Instr. 4)				
Stock Option (Right to Buy)	\$3.525	12/16/2009			M			6,769	(1)		09/14/2010	Common Stock	6,769	\$0	0		D		
Stock Option (Right to Buy)	\$1.75	12/16/2009			М			2,187	(2)		01/30/2013	Common Stock	2,187	\$0	8,751	(3)	D		
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Explanation of Responses:

\$1.75

\$1.75

1. This option vested in installments and became vested in full on September 15, 2004.

12/16/2009

12/16/2009

- 2. This option vested in installments and became vested in full upon completion of the issuer's initial public offering.
- 3. Does not include 20,833 shares subject to the unexercised portion of this option for which the exercise price is \$5.10 per share.
- 4. This option vested in installments and became vested in full on September 30, 2007.
- 5. Does not include 98,014 shares subject to the unexercised portion of this option for which the exercise price is \$5.10 per share.
- 6. This option vested in installments and became vested in full on December 31, 2008.

Remarks:

Option (Right to Buy)

Stock Option (Right to

Buy)

/s/ Peter A. Zorn, Attorney-in-Fact for J. Donald deBethizy

Common

Stock

Common Stock

75,645

124,403

\$<mark>0</mark>

\$<mark>0</mark>

10/30/2013

03/28/2015

12/18/2009

28,211(5)

0

D

D

** 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.

75,645

124,403

(4)

(6)