SEC Form 4	
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## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Check	this box if no longer subject to
	16. Form 4 or Form 5
obligati	ons may continue. See
Instruc	tion 1(b).

# STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL								
OMB Number: 3235-028								
Estimated average burde	n							
hours per response:	0.5							

1. Name and Address of Reporting Person <sup>*</sup> <u>deBethizy J Donald</u>			2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>TARGACEPT INC</u> [ TRGT ]		tionship of Reporting Perso all applicable) Director	on(s) to Issuer 10% Owner
(Last) C/O TARGACE 200 EAST FIRS	(First) PT, INC. I STREET, SUIT	(Middle) E 300	3. Date of Earliest Transaction (Month/Day/Year) 09/04/2009	x	Officer (give title below) President and C	Other (specify below) CEO
(Street) WINSTON- SALEM (City)	NC (State)	27101 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Filing Form filed by One Repor Form filed by More than Person	ting Person

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code ( 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 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	Amount (A) or (D) Price		Transaction(s) (Instr. 3 and 4)		(1150.4)
Common Stock	09/04/2009		М		11,149	A	\$1.75	58,066	D	
Common Stock	09/04/2009		S		11,149	D	\$15.0214	46,917	D	
Common Stock	09/08/2009		М		851	A	\$1.75	47,768	D	
Common Stock	09/08/2009		S		851	D	\$15	46,917	D	

#### 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. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of Deri Seco Acq (A) ( Disp of (E	umber vative urities uired or oosed o) (Instr. and 5)			on Date of Securities		urities Derivative lying Security tive Security (Instr. 5)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (Right to Buy)	\$1.75	09/04/2009		М			11,149	(1)	03/28/2015	Common Stock	11,149	\$0	125,254	D	
Stock Option (Right to Buy)	\$1.75	09/08/2009		М			851	(1)	03/28/2015	Common Stock	851	\$0	124,403	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-Fact for J. Donald deBethizy

09/09/2009

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.