FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
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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

Name and Address of Reporting Person* Brennan Jeffrey P						_	,		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u> Dieilian Jei</u>	<u>mey P</u>						_			Director	10% (
4. 0	(F: 1)	TARGACEPT INC TRGT	Officer (give title below)	itle Other (specify below)										
(Last) (First) (Middle) C/O TARGACEPT, INC.					action (N	/lonth/	Day/Year)		VP - Bus. & C	Commercial D	ev.			
	RST STREET, S	SUITE 300												
(Street)				mendment, Date of	f Origina	l Filed	(Month/Day/		6. Individual or Joint/Group Filing (Check Applicable					
WINSTON-	NC	27101						I ''						
SALEM	NC	2/101								Form filed by More than One Reporting Person				
(City)	(State)	(Zip)												
		Table I - No	on-Derivative S	Securities Acc	quired	, Dis	posed of,	or Ber	eficially	Owned				
1. Title of Security (Instr. 3)		Date	Execution Date, if any	Transaction Code (Instr.		4. Securities Disposed Of	Acquired (D) (Instr	(A) or . 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
					Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)		
Common Stock	ζ		12/11/2009		M		11,555	A	\$5.1	11,555	D			
Common Stock	ζ		12/11/2009		M		1,200	A	\$5.63	12,755	D			
Common Stock	ζ		12/11/2009		M		5,000	A	\$1.75	17,755	D			
Common Stock	ζ		12/11/2009		M		13,964	Α	\$5.1	31,719	D			
Common Stock	ζ		12/11/2009		M		53,198	Α	\$5.55	84,917	D			
Common Stock	7		12/11/2009		М		9.842	Α	\$2.93	94 759	D			

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

94,759

\$20.901

0

12/11/2009

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 Seci Acq (A) o Disp of (E	umber vative urities uired or oosed O) (Instr. and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	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)	\$5.1	12/11/2009		M			11,555	(1)	08/31/2013	Common Stock	11,555	\$0	0	D	
Stock Option (Right to Buy)	\$5.63	12/11/2009		М			1,200	01/26/2004	01/25/2014	Common Stock	1,200	\$0	0	D	
Stock Option (Right to Buy)	\$1.75	12/11/2009		М			5,000	(2)	03/28/2015	Common Stock	5,000	\$0	0	D	
Stock Option (Right to Buy)	\$5.1	12/11/2009		М			13,964	(3)	02/27/2016	Common Stock	13,964	\$0	1,995	D	
Stock Option (Right to Buy)	\$5.55	12/11/2009		М			53,198	(4)	08/15/2016	Common Stock	53,198	\$0	12,277	D	
Stock Option (Right to Buy)	\$2.93	12/11/2009		М			9,842	(5)	01/08/2019	Common Stock	9,842	\$0	42,658	D	

Explanation of Responses:

Common Stock

- 1. This option vested in installments and became vested in full upon completion of the issuer's initial public offering.
- 2. This option vested in installments and became vested in full on December 31, 2008.

- 3. This option vests in equal installments on the last day of 16 consecutive calendar quarters beginning March 31, 2006.
- $4.\ This\ option\ vests\ in\ equal\ installments\ on\ the\ last\ day\ of\ 16\ consecutive\ calendar\ quarters\ beginning\ September\ 30,\ 2006.$
- 5. This option vests in equal installments on the last day of 16 consecutive calendar quarters beginning March 31, 2009.

Remarks:

/s/ Peter A. Zorn, Attorney-in-Fact for Jeffrey P. Brennan 12/15/2009

** 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.