Instruction 1(b).

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHI	Ρ

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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

1. Name and Address of Reporting Person* Brennan Jeffrey P						2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]								eck all appli Directo Officer	tionship of Reportin all applicable) Director Officer (give title		10% Ow Other (s	vner
(Last) (First) (Middle) C/O TARGACEPT, INC.						3. Date of Earliest Transaction (Month/Day/Year) 08/10/2009								below)		Comm	below)	7.
200 EAST FIRST STREET, SUITE 300 (Street) WINSTON- SALEM NC 27101				4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)								e) X Form f Form f					
(City)	(S	tate)	(Zip)															
		Tab	le I - N	on-Deri	vativ	e Se	curit	ties Ac	quired	l, Di	sposed o	f, or Be	neficial	y Owned	l			
Date				Date	ransaction e nth/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)					ies Acquired (A) or Of (D) (Instr. 3, 4 and 5		Beneficially Owned Followir		Form (D) o	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3	tion(s)			(Instr. 4)
Common Stock 08/10/20)09		M		15,000	A	\$1.75	15,000			D		
Common Stock 08/10/20					/2009)09		S		15,000	D	\$12.625	56	0		D		
		-	Гable II								posed of, convertil			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deen Execution if any (Month/E	n Date,	4. Transa Code (8)	ection Instr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 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. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares					
Stock Option (Right to Buy)	\$1.75	08/10/2009			M			15,000	(1)		03/28/2015	Common Stock	15,000	\$0	15,00	0	D	

Explanation of Responses:

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

Remarks:

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

08/12/2009

** 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.