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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

Washington, D.C. 20040

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

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

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1. Name and Address of Reporting Person* Brennan Jeffrey P					2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
Dicinian schieg 1													Office				·
													X below	r (give title		Other (s below)	pecily
(Last) (First) (Middle) C/O TARGACEPT, INC.					3. Date of Earliest Transaction (Month/Day/Year) 01/19/2010								VP - Bus. & Commercial Dev.				
200 EAST FIRST STREET, SUITE 300																	
(Street)				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)				
WINSTO SALEM	NC NC		27101											filed by One		•	
JALEM													Form Perso	filed by More	e thar	one Repoi	ting
(City)	(S	tate)	(Zip)														
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date				ransactior te onth/Day/Yo	ear) i	2A. Deemed Execution Date, if any (Month/Day/Yea		, Transaction Disp Code (Instr. 5)		n Dispose	urities Acquired (A) eed Of (D) (Instr. 3, 4		Benefic Owned	es Form ally (D) (Following (I) (I		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership
								Code	v	Amount	(A) (D)	Price	Reporte Transac (Instr. 3	tion(s)			(Instr. 4)
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/Yea	ate, Transaction				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		Derivative Security	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercis		Expiration Date	Title	Amount or Number of Shares					
Stock Option (Right to	\$20.68	01/19/2010		A		50,000		(1)		01/18/2020	Common	50,000	\$0	50,000)	D	

Explanation of Responses:

1. This option vests in equal installments on the last day of 16 consecutive calendar quarters beginning March 31, 2010.

Remarks:

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

01/21/2010

** 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.