FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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* BARRETT M JAMES						2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]										5. Relationship of Reporting Person(s) to (Check all applicable) X Director X 10%					suer wner
(Last) 1119 ST.	(F	,	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 02/06/2007											Officer below)	(give title		Other (: below)	specify
(Street) BALTIMORE MD 21202					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)											ividual or Joint/Group Filing (Check Appl Form filed by One Reporting Person Form filed by More than One Reporti Person				n
(City)	(S	tate)	(Zip)																		
		Tab	le I - No			_			qu	ired,	Disp					_	Owned	k			
Da			Date	ansaction nth/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		,	3. Transaction Code (Instr. r) 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				4 and Securi Benefi Owned		es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Ī	Code	v	Amount	(A) or (D)		Price			orted saction(s) tr. 3 and 4)			(Instr. 4)
Common Stock 02/0				02/06	5/2007	/2007			М			1,000	000 A S		\$0.0)75	5 2,000		I		See Note 1 ⁽¹⁾
Common Stock																	3,263,512		I		See Note 2 ⁽²⁾
		Т	able II -	Derivat (e.g., p													wned		,		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,		ransaction ode (Instr.		n of		Date Exe piration onth/Day	Date) Ame Sec Und Der		7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)		De Se (Ir	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	le V	(A)	(D)	Dat Exe	te ercisabl		kpiration ate	Title		Amount or Number of Shares						
Stock Option	\$0.075	02/06/2007			M			1,000	06/	5/07/2005	5	(3)		nmon	1,000		\$0	0		I	See Note

Explanation of Responses:

- 1. The Reporting Person is a member of New Enterprise Associates, LLC, which is the sole owner of NEA Development Corp., the beneficial owner of the securities. The Reporting Person disclaims beneficial ownership, within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, of the securities held by NEA Development Corp., except to the extent of his pecuniary interest therein.
- 2. The Reporting Person is a general partner of NEA Partners 10, Limited Partnership, which is the sole general partner of New Enterprise Associates 10, Limited Partnership ("NEA 10"), the beneficial owner of the securities. The Reporting Person disclaims beneficial ownership, within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, of such portion of the securities held by NEA 10, except to the extent of his pecuniary interest therein.
- 3. This stock option would have expired on the later of (a) the date that is two and one-half months following the end of the first taxable year of NEA Development Corp. during which the option vests, or (b) the date that is two and one-half months following the end of the Issuer's taxable year in which the option vests, and in no event after March 15, 2007.

Buy)

In addition to the shares reported herein, the Reporting Person indirectly owns a stock option granted on 3/28/03 for 3,333 common shares and a stock option granted on 6/11/03 for 1,000 common shares, which are beneficially owned by NEA Development Corp. These holdings have been previously reported. The Reporting Person is a member of New Enterprise Associates, LLC, which is the sole owner of NEA Development Corp. The Reporting Person disclaims beneficial ownership, within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, of such portion of all these shares in which the Reporting Person has no actual pecuniary interest therein. In addition to the shares reported herein, NEA Ventures 2002, L.P. owns 3,154 shares of Common Stock of the Issuer as a result of the conversion of the Series C Preferred Stock. The Reporting Person does not have voting nor dispositive powers over such shares. The Reporting Person disclaims beneficial ownership, within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, of such portion of all these shares in which the Reporting Person has no actual pecuniary interest therein.

> /s/ Louis S. Citron, attorney-in-02/20/2007 fact

** 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.