

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL	
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1. Name and Address of Reporting Person* NEWHALL CHARLES W III			2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) <input type="checkbox"/> Other (specify below) <input type="checkbox"/>		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 02/06/2007					
1119 ST. PAUL STREET			4. If Amendment, Date of Original Filed (Month/Day/Year)			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person		
(Street)	BALTIMORE MD 21202							
(City)	(State)	(Zip)						

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. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	02/06/2007		M		1,000	A	\$0.075	2,000	I	See Note 1 ⁽¹⁾
Common Stock								3,263,512	I	See Note 2 ⁽²⁾

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. Transaction Code (Instr. 8)		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. 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
Stock Option (Right to Buy)	\$0.075	02/06/2007		M			1,000	06/07/2005	⁽³⁾	Common Stock	1,000	\$0	0	I	See Note 1 ⁽¹⁾

Explanation of Responses:

- 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.
- 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.
- 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.

Remarks:

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-fact 02/08/2007

** 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.