FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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(h)

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* $\underline{Jones\ Elaine\ V}$						2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]								Relationship of Reporting P (Check all applicable) X Director			Person(s) to Issuer			
(Last) (First) (Middle) C/O TARGACEPT, INC.						3. Date of Earliest Transaction (Month/Day/Year) 02/23/2007									er (give w)	e title		Other (pelow)	specify	
(Street)	WINSTON- NC 27101				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S	tate)	(Zip)																	
		Tal	ole I -	Non-Der	ivativ	e Se	curiti	ies A	cquir	ed, I	Disposed	of, or E	Benefic	ially Owne	d					
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye					Execu	eemed ution D :h/Day/	ate,	3. Transaction Code (Instr. 8)			s Acquired (A) or If (D) (Instr. 3, 4 and		5. Amount of Securities Beneficially Owned Following		6. Owne Form: D (D) or In (I) (Instr.	irect direct	Indire Benef Owne	Nature of lirect neficial <i>r</i> nership (Instr.		
									Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		4)		4)		
Common Stock 02/23/200					2007	7		М		803	A	\$0.075	1,510,883		I		By EuclidSR Partners, L.P.			
Common Stock 02/23/200					:007	7		М		197	A	\$0.075	371,945		I I		By EuclidSR Biotechnology Partners, L.P.			
			Table						-		sposed o			lly Owned	<u> </u>	,				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	emed tion Date, n/Day/Year)	4. Transa Code (8)			vative crities cired r osed)	6. Date Exerc Expiration Da (Month/Day/\)		ate	7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Num derivat Securi Benefi Owned Follow Report Transa (Instr.	tive ties cially d ving ted action(s)	10. Owner Form: Direct or Indi (I) (Ins	ership : et (D) direct	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerci	sable	Expiration Date	Title	Amount or Number of Shares							
Stock Option (Right to Buy)	\$0.075	02/23/2007						803	06/07/	2006	(3)	Common Stock	803	\$0		0	I	- 1	By EuclidSR Partners L.P. (1)	
Stock Option (Right to Buy)	\$0.075	02/23/2007			M	197		06/07/2006 (3)		(3)	Common Stock	197	\$0 0		0	I		By EuclidSR Biotechnology Partners L.P. (2)		

Explanation of Responses:

- 1. The reporting person is a general partner of EuclidSR Associates, L.P., the general partner of EuclidSR Partners, L.P. The reporting person disclaims beneficial ownership of these securities except to the extent of her pecuniary interest therein.
- 2. The reporting person is a general partner of EuclidSR Biotechnology Associates, L.P., the general partner of EuclidSR Biotechnology Partners, L.P. The reporting person disclaims beneficial ownership of these securities except to the extent of her pecuniary interest therein.
- 3. This stock option would have expired on the later of (1) the date that is two and one-half months following the end of the recipient's first taxable year during which the option vested, or (2) the date that is two and one-half months following the end of the issuer's taxable year in which the option vested, and in no event after March 15, 2007.

Remarks:

/s/ Peter A. Zorn, Attorney-in-02/27/2007 **Fact**

** 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.

Securities and Exchange Commission Judiciary Plaza 450 Fifth Street, N.W. Washington, DC 20549

Re: Targacept, Inc.

Gentlemen:

Pursuant to General Instruction 7 to Form 3 (Initial Statement of Beneficial Ownership), Form 4 (Statement of Changes in Beneficial Ownership) and Form 5 (Annual Statement of Changes in Beneficial Ownership) promulgated by the Securities and Exchange Commission pursuant to Section 16 of the Securities Exchange Act of 1934, the undersigned director, officer and/or shareholder of Targacept, Inc. (the "Company") hereby authorizes and designates Peter A. Zorn, Mauri K. Hodges, and Alan A. Musso, and each of them, to execute and file with the Commission on her behalf any and all statements on Form 3, Form 4 or Form 5 relating to her beneficial ownership of securities of the Company as required by Section 16(a) of the Securities Exchange Act of 1934 and the rules of the Commission promulgated thereunder. This authorization and designation shall be effective for so long as the undersigned remains subject to the provisions of Section 16 of the Securities Exchange Act of 1934.

Effective as of July 18, 2006.

/s/ Elaine V. Jones Elaine V. Jones