FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL						
OMB Number:	MB Number: 3235-0104					
Estimated average burden						
hours per response:	0.5					

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

			or sect	1011 30(11) 01	the mve	strient Company Act of 19	40			
DESOUZA ERROL B			. Date of Event Requiring Stater Month/Day/Yea 14/11/2006	nent	3. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT]					
	(First) (Middle) TARGACEPT, INC.				Relationship of Reporting Perso (Check all applicable) X Director		on(s) to Issuer		5. If Amendment, Date of Original Filed (Month/Day/Year)	
200 EAST FII	RST STREET,	SUITE 300				Officer (give title below)	Other (spe below)	, 10	Individual or Joint	/Group Filing (Check
(Street) WINSTON- SALEM	NC	27101							X Form filed by	y One Reporting Person y More than One erson
(City)	(State)	(Zip)								
Table I - Non-Derivative Securities Beneficially Owned										
1. Title of Security (Instr. 4)				ally Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)		4. Nature of Indirect Beneficial Ownership (Instr. 5)			
Common Stoc	k					1,000	D			
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)										
		2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)			4. Conversion or Exercise Price of	se Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
			Date Exercisable	Expiration Date	1 Title		Amount or Number of Shares	Derivative Security	Direct (D) or Indirect (I) (Instr. 5)	
Stock Option (Right to Buy)		01/14/2005	01/13/2014		Common Stock	3,333	0.075	D	
Stock Option (Right to Buy)		06/07/2006	(1)		Common Stock	1,000	0.075	D	

Explanation of Responses:

1. This stock option expires on the later of (1) the date that is two and one-half months following the end of Dr. De Souza's first taxable year during which the option vests, or (2) 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:

/s/ Errol B. De Souza

04/11/2006

Date

othy

** 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 5 (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 Hodges, and Alan A. Musso, and each of them, to execute and file with the Commission on his behalf any and all statements on Form 3, Form 4 or Form 5 relating to his 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 April 11, 2006.

/s/ Erroll B. DeSouza

Erroll B. DeSouza