FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL

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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* Hodges Mauri K (Last) (First) (Middle) C/O TARGACEPT, INC. 200 EAST FIRST STREET, SUITE 300			2. Date of Event Requiring Statement (Month/Day/Year) 04/13/2010		3. Issuer Name and Ticker or Tra TARGACEPT INC [T 4. Relationship of Reporting Pers (Check all applicable) Director X Officer (give title below) VP Finance & Corp		son(s) to Issuer 10% Owner Other (specify below)		5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line)			
SALEM	NC (State)	27101 (Zip)			VI Finance & Corp		, oyatema		X	X Form filed by One Reporting Person Form filed by More than One Reporting Person		
Table I - Non-Derivative Securities Beneficially Owned												
1. Title of Security (Instr. 4)					2. Amount of Securities Beneficially Owned (Instr. 4)				4. Nature of Indirect Beneficial Ownership (Instr. 5)			
Common Stock					1,159		D					
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)												
1. Title of Derivative Security (Instr. 4)			2. Date Exercisable and Expiration Date (Month/Day/Year)		d 3. Title and Amount of Securi Underlying Derivative Securit			4. Convers	cise	5. Ownership Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
		Date Exercisable	Expiration Date	ı Title		Amount or Number of Shares	Price of Derivative Security		Direct (D) or Indirect (I) (Instr. 5)			
Employee Stock	loyee Stock Option (right to buy)		(1)	08/15/2016	.6 Common Stock		26,131	5.55		D		
Employee Stock Option (right to buy)		(2)	12/18/2017	,	Common Stock	32,692	8.51	L	D			
Employee Stock Option (right to buy)		(3)	01/08/2019		Common Stock	28,001	2.93	3	D			
Employee Stock	Option (righ	t to buy)	(4)	01/18/2020		Common Stock	35,000	20.6	8	D		

Explanation of Responses:

- 1. The option vests (vested) in equal installments on the last day of each of 16 consecutive calendar quarters beginning with September 30, 2006.
- 2. The option vests (vested) in equal installments on the last day of each of 16 consecutive calendar quarters beginning with December 31, 2007.
- 3. The option vests (vested) in equal installments on the last day of each of 16 consecutive calendar quarters beginning with March 31, 2009.
- 4. The option vests (vested) in equal installments on the last day of each of 16 consecutive calendar quarters beginning with March 31, 2010.

Remarks:

/s/ Mauri K. Hodges

** Signature of Reporting Person

04/22/2010

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Date

* 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 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 designat ion 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 19, 2010.

/s/ Mauri K. Hodges Mauri K. Hodges