SEC Form 4	
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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

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
OMB Number: 3235-0287
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1. Name and Address of Reporting Person [*] Caldwell William S (Last) (First) (Middle) C/O TARGACEPT, INC. 200 EAST FIRST STREET, SUITE 300			2. Issuer Name and Ticker or Trading Symbol <u>TARGACEPT INC</u> [TRGT] 3. Date of Earliest Transaction (Month/Day/Year) 07/29/2009		ationship of Reporting Po k all applicable) Director Officer (give title below) VP - Drug Discov	10% Owner Other (specify below)
(Street) WINSTON- SALEM (City)	NC (State)	27101 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indi Line) X	vidual or Joint/Group Fili Form filed by One Re Form filed by More th Person	eporting Person

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)	Code	4. Securities Acquired (A) or bisaction e (Instr.			5. Amount of Securities Beneficially Owned Following Reported	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	Transaction(s) (Instr. 3 and 4)		(1150.4)	
Common Stock	07/29/2009		М		693	A	\$1.75	8,428	D		
Common Stock	07/29/2009		S		693	D	\$12.0006	7,735	D		
Common Stock	07/30/2009		М		636	A	\$1.75	8,371	D		
Common Stock	07/30/2009		S		636	D	\$12	7,735	D		

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

			(e.g.,	puis,	cans	, wai	rani	s, options	, convert	ible seci	unues)				
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. Transa Code (8)		of Deriv Secu Acqu (A) o Disp of (D (Instr	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		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	Amount or Number of Shares				
Stock Option (Right to Buy)	\$1.75	07/29/2009		М			693	(1)	01/30/2013	Common Stock	639	\$0	4,557 ⁽²⁾	D	
Stock Option (Right to Buy)	\$1.75	07/30/2009		М			636	(1)	01/30/2013	Common Stock	636	\$0	3,921 ⁽²⁾	D	

Explanation of Responses:

1. This option vested in installments and became vested in full upon completion of the issuer's initial public offering.

2. Does not include 10,750 shares subject to the unexercised portion of this option for which the exercise price is \$5.10 per share.

Remarks:

The shares covered by this Form 4 have been sold pursuant to a Rule 10b5-1 Sales Plan dated March 14, 2008, which is intended to comply with Rule 10b5-1(c) promulgated under the Securities Exchange Act of 1934, as amended.

<u>/s/ Peter A. Zorn, Attorney-in-</u> <u>Fact for William S. Caldwell</u> 07/31/2009

** 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.