FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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	STATEMENT OF
obligations may continue. See Instruction 1(b).	Filed pursuan

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* BURRILL STEVEN					2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [TRGT] 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner											/ner	
(Last) (First) (Middle) C/O TARGACEPT, INC. 200 EAST FIRST STREET, SUITE 300					3. Date of Earliest Transaction (Month/Day/Year) 05/10/2011									Officer (below)	(give title	Other (s below)	pecity
(Street) WINSTON- SALEM NC 27101					If Ame	ndmei	it, Date o	f Origir	nal File	ed (Month	/Day/	'Year)			oint/Group Filing ed by One Rep ed by More tha	orting Persor	n
(City)	(S	tate)	(Zip)														
Table 1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Yea	2A Ex ar) if a	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Trans Code	3. Transaction Code (Instr.		d, Disposed of, or large 4. Securities Acquired (A) Disposed Of (D) (Instr. 3,				5. Amount of Securities Beneficially Owned Following	6. Owners Form: Dire (D) or Indii (I) (Instr. 4)	ect Indirec	t	
							Code	Code V		Amount (A)		Price		Transaction(s) (Instr. 3 and 4)			
Common	Stock		05/10/2011	<u> </u>			M		16	,948	A	\$9.3	7	16,948	D		
Common	Stock		05/10/2011	L			S		16	,948	D	\$24.04	24 ⁽¹⁾	0	D		
Common	Common Stock		05/10/2011	L			S		2,000 Г		D	\$24.12	66 ⁽²⁾	0	I	I By B Comp	
Common	Stock		05/11/2011	L			М		10	,552	Α	\$9.3	7	10,552	D		
Common	(First) (GACEPT, INC. T FIRST STREET, SUITE N-NC (State) Tab Security (Instr. 3) Stock		05/11/2011	1			M		7,	500	Α	\$9.2	7	18,052	D		
Common	Stock		05/11/2011	L			M		7,	500	A	\$7.	1	25,552	D		
Common	Stock		05/11/2011	L			M		7,	500	A	\$2.7	1	33,052	D		
Common	Stock		05/11/2011	1			S		33	,052	D	\$23.88	19 ⁽⁴⁾	0	D		
Common Stock													0(2)	I	Biote	By Burrill Biotechnology Capital Fund L.P.	
			Table II - Deriv									r Benef e secur					
Derivative Conversion Date Security (Instr. 3) Price of Derivative (Instr. 3) Price of Derivative		3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa	. 5. Num ransaction of ode (Instr. Derivat		rative rities iired r osed) (Instr.	nber 6. Date Expira (Month ities red sed (Instr.		te Exercisable and ation Date th/Day/Year)		7. Title and Amor of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	derivative Securities Beneficially Owned	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	ode V (A) (E			Date Exercis	Expiration				Amour or Numbe of Shares	er			
Stock Option (Right to Buy)	\$9.37	05/10/2011		М			16,948	05/14/	2007	05/13/20:	17	Common Stock	16,94	8 \$0	3,052	D	
Stock Option (Right to Buy)	\$9.37	05/11/2011		М			3,052	05/14/	2007	05/13/20:	17	Common Stock	3,052	2 \$0	0	D	
Stock Option (Right to Buy)	\$9.37	05/11/2011		M			7,500	06/12/	2007	05/13/20:	17	Common Stock	7,500	\$0	0	D	
Stock Option (Right to Buy)	\$9.27	05/11/2011		М			7,500	06/20/	2008	06/19/20	17	Common Stock	7,500	\$0	0	D	

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. Transa Code (8)		of Deri Sec Acq (A) (Disp of (I	umber vative urities uired or oosed O) (Instr. and 5)	6. Date Exerc Expiration Da (Month/Day/\)	ate	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)	\$7.1	05/11/2011		М			7,500	06/09/2009	07/01/2018	Common Stock	7,500	\$0	0	D	
Stock Option (Right to Buy)	\$2.71	05/11/2011		M			7,500	06/09/2010	06/16/2019	Common Stock	7,500	\$0	0	D	

Explanation of Responses:

- 1. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$24.00 to \$24.19, inclusive. The reporting person undertakes to provide to the issuer, any security holder of the issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.
- 2. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$23.99 to \$24.23, inclusive. The reporting person undertakes to provide to the issuer, any security holder of the issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.
- 3. The reporting person is the chief executive officer of Burrill & Company LLC. The reporting person disclaims beneficial ownership of securities owned by Burrill & Company LLC except to the extent of his pecuniary interest therein.
- 4. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$23.50 to \$24.04, inclusive. The reporting person undertakes to provide to the issuer, any security holder of the issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.
- 5. Reflects a prior pro rata distribution by Burrill Biotechnology Capital Fund L.P. of all shares of the issuer previously reported as indirectly held by the reporting person as the managing member of Burrill & Company (Biotechnology GP), LLC, the general partner of Burrill Biotechnology Capital Fund L.P. The reporting person disclaims beneficial ownership of securities owned by Burrill Biotechnology Capital Fund L.P. except to the extent of his pecuniary interest therein.

Remarks:

/s/ Peter A. Zorn, Attorney-in-Fact for G. Steven Burrill 05/12/2011

** 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.