FORM 4

obligations may continue. See

Instruction 1(b)

Check this box if no longer subject to Section 16. Form 4 or Form 5

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

<b>STATEMENT</b>	OF CHANGES II	N BENEFICIAL	<b>OWNERSHIP</b>

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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*  BROWN JULIA R					2. IS	2. Issuer Name and Ticker or Trading Symbol TARGACEPT INC [ TRGT ]								heck a	tionship of Reporting all applicable) Director Officer (give title below)		ng Person(s) to Iss 10% Ov Other (s below)		vner
(Last) (First) (Middle) C/O TARGACEPT, INC. 200 EAST FIRST STREET, SUITE 300					05/	3. Date of Earliest Transaction (Month/Day/Year) 05/20/2010													
(Street) WINSTO	N		27101		_   4. li	4. If Amendment, Date of Original Filed (Month/Day/Year)							Individue)  X	Form f	al or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person				
(City)	(5		(Zip) le I - N	on-Deriv	vative	Sec	uritie	s Ar	auirea	I. Di	sposed o	of, or Re	neficia	ıllv C	wner				
1. Title of Security (Instr. 3) 2. Tr.		2. Transac Date (Month/Da	ction	ion 2A. Deeme		ate,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or		(A) or	5. Amo Securit Benefic Owned		int of es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price	I	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
Common Stock		05/20/	/20/2010				M		5,193	A	\$8.7	8.7		5,193		D			
Common Stock		05/20/	/20/2010				S		5,193	D	\$22.96	969(1)		0		D			
Common Stock		05/21/	2010				M		7,307	A	\$8.7	\$8.7		7,307		D			
Common Stock 05/21/2			2010	)10		S		7,307	D	\$23.131 <sup>(2)</sup>		0			D				
		Т	able II								posed of				vned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	med	4. Transa Code ( 8)	ction	5. Number of		6. Date Exerci Expiration Da (Month/Day/Yo		isable and	7. Title an Amount of Securities Underlyin Derivative (Instr. 3 an	d f s g e Security	8. P Der Sec (Ins	. Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	s S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares						
Stock Option (Right to	\$8.7	05/20/2010			M		5,193		(3)		12/04/2017	Common Stock	5,193		\$0	19,807	7	D	

## **Explanation of Responses:**

\$8.7

1. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$22.70 to \$23.25, 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

(3)

12/04/2017

7,307

- 2. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$22.52 to \$23.43, 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
- 3. This stock option (x) vested and became exercisable with respect to one-third of the shares subject to the option on June 24, 2008 and (y) vests and becomes exercisable with respect to the remaining twothirds of the shares subject to the option in pro rata quarterly installments over the next two years so that the option will be vested and exercisable in full on the earlier of (i) December 5, 2010 or (ii) the business day immediately preceding the date of the issuer's 2010 Annual Meeting of Stockholders, provided that the reporting person remains in service as a director during such period.

## Remarks:

Stock Option

Buy)

(Right to

/s/ Peter A. Zorn, Attorney-in-05/24/2010 Fact for Julia R. Brown

\*\* Signature of Reporting Person

7,307

Stock

\$<mark>0</mark>

12,500

D

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).

05/21/2010

\*\* 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.