FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

VVd3/iii/gt6/1, D.O. 200-73

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(h)

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Name and Address of Reporting Person*     Bencherif Merouane						2. Issuer Name <b>and</b> Ticker or Trading Symbol TARGACEPT INC [ TRGT ]								of Reporting P cable) or (give title	erson(s) to Iss 10% Ow Other (s	/ner
(Last) (First) (Middle) C/O TARGACEPT, INC.					3. Date of Earliest Transaction (Month/Day/Year) 03/29/2011								helow)		below)	
200 EAST FIRST STREET, SUITE 300																
(Street) WINSTO	WINSTON- NC 27101		27101	4.	4. If Amendment, Date of Origina					jinal Filed (Month/Day/Year)			ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(S	tate)	(Zip)													
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)					Execution Date,			Code (Instr.   5)				5. Amou Securitie Beneficia Owned F Reported	s Fo ally (D following (I)	orm: Direct ) or Indirect (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	(A) or (D)	Price	Transact (Instr. 3 a			
	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)	Code (	Transaction Code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares				
Stock Option (Right to Buy)	\$26.05	03/29/2011		A		40,000		(1)		03/28/2021	Common Stock	40,000	\$0	40,000	D	

## **Explanation of Responses:**

1. This option vests in equal installments on the last day of 16 consecutive calendar quarters beginning with March 31, 2011.

## Remarks:

The corporate action for this option was taken on March 8, 2011.

/s/ Peter A. Zorn, Attorney-in-Fact for Merouane Bencherif 03/31/2011

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.