

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

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

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* <u>Bencherif Merouane</u>  (Last) (First) (Middle) C/O TARGACEPT, INC. 200 EAST FIRST STREET, SUITE 300  (Street) WINSTON- SALEM NC 27101  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>TARGACEPT INC [ TRGT ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title below) Other (specify below) X VP, Preclinical Research
	3. Date of Earliest Transaction (Month/Day/Year) 12/14/2009	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting 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)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock	12/14/2009		M		7,968	A	\$2.93	15,703	D	
Common Stock	12/14/2009		M		4,967	A	\$8.51	20,670	D	
Common Stock	12/14/2009		S		1,435	D	\$22.443	19,235	D	
Common Stock	12/14/2009		S		6,533	D	\$22.4488	12,702	D	
Common Stock	12/14/2009		S		4,967	D	\$22.4488	7,735	D	
Common Stock	12/15/2009		M		8,056	A	\$8.51	15,791	D	
Common Stock	12/15/2009		S		8,056	D	\$22.1852	7,735	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. Transaction Code (Instr. 8)		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)	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
Stock Option (Right to Buy)	\$2.93	12/14/2009		M			7,968	(1)	01/08/2019	Common Stock	7,968	\$0	34,532	D	
Stock Option (Right to Buy)	\$8.51	12/14/2009		M			4,967	(2)	12/18/2017	Common Stock	4,967	\$0	52,143	D	
Stock Option (Right to Buy)	\$8.51	12/15/2009		M			8,056	(2)	12/18/2017	Common Stock	8,056	\$0	44,087	D	

**Explanation of Responses:**

- 1. This option vests in equal installments on the last day of 16 consecutive calendar quarters beginning March 31, 2009.
- 2. This option vests in equal installments on the last day of 16 consecutive calendar quarters beginning December 31, 2007.

**Remarks:**

/s/ Peter A. Zorn, Attorney-in-Fact for Merouane Bencherif 12/16/2009

\*\* 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.

