SEC Form 4	
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## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

I

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See	STATEME	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP					
Instruction 1(b).	File	d pursuant to Section 16(a) of the Securities Exchange Act of 19 or Section 30(h) of the Investment Company Act of 1940	34	l	hours per respo		
		2. Issuer Name and Ticker or Trading Symbol	5 Pola	tionshin of P	eporting Persor		
1. Name and Address of Reporting Person		TARGACEPT INC [ TRGT ]	all applicabl				
<u>Musso Alan A</u>				Director		10% Owne	
			X	Officer (giv below)	/e title	Other (spec below)	
(Last) (First) C/O TARGACEPT, INC.	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 01/19/2010		VP,	CFO & Treas	surer	

## OMB Number: 3235-0287 Estimated average burden ours per response: 0.5

Musso Alan A   (Last) (First)   (C/O TARGACEPT, INC.   200 EAST FIRST STREET, SUITE 300						f Earliest Transa			-		;	below)	or (give title /P, CFO	& Tre	10% O Other ( below) asurer	-
(Street) WINSTON- SALEM 27101 (City) (State) (Zip)					4. If Ame	ndment, Date o	f Original	Filed	(Month/Da	ay/Year)	Line	X Form f	iled by One	e Repo	(Check Ap rting Perso One Repo	'n
		,	( 1)													
		Tab	le I - Non-	-Deriva	tive Se	curities Acc	quired,	Disp	osed o	of, or Bend	eficiall	y Owned				
1. Title of s	Security (Inst			-Deriva 2. Transac Date (Month/Da	ction 2 ay/Year) i	CURITIES ACC 2A. Deemed Execution Date, f any Month/Day/Year	3. Transa Code (	action	4. Securit	ties Acquired I Of (D) (Instr.	(A) or	5. Amou Securitie Beneficia Owned F	nt of es ally Following	Form	nership : Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership
1. Title of s	Security (Inst			2. Transac Date	ction 2 ay/Year) i	2A. Deemed Execution Date, f any	3. Transa Code (	action (Instr.	4. Securit Disposed	ties Acquired	(A) or	5. Amou Securitie Beneficia	nt of es ally following d ion(s)	Form: (D) or	Direct	of Indirect Beneficial
1. Title of S	Security (Insi	tr. 3)	Table II - D	2. Transac Date (Month/Da	ction ay/Year)	2A. Deemed Execution Date, f any	3. Transa Code ( 8) Code	iction Instr.	4. Securit Disposed 5) Amount	ties Acquired I Of (D) (Instr. (A) or (D) Or Benef	(A) or 3, 4 and Price icially	5. Amou Securitie Beneficia Owned F Reported Transact (Instr. 3 a	nt of es ally following d ion(s)	Form: (D) or	Direct	of Indirect Beneficial Ownership

(	Derivative Security		(	Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		ed ed nstr.			(Instr. 3 and 4)		(	Owned Following Reported Transaction(s) (Instr. 4)	or Indirect (I) (Instr. 4)	(Instr. 4)		
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares					
Stock Option (Right to Buy)	\$20.68	01/19/2010		A		50,000		(1)	01/18/2020	Common Stock	50,000	\$0	50,000	D		

Explanation of Responses:

1. This option vests in equal installments on the last day of 16 consecutive calendar quarters beginning March 31, 2010.

**Remarks:** 

## /s/ Peter A. Zorn, Attorney-in-Fact for Alan A. Musso

01/21/2009

\*\* 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.