FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

rusimigioi	, D.O. 20	0-10		

	OMB	APPROVAL
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OMB Number: 3235-0287 Estimated average burden hours per response: 0.5

## 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

				0	or Sect	tion 30(h) of	the Inv	estmen	t Com	pany A	ct of 19	40						
Name and Address of Reporting Person*  Andrade Robert					2. Issuer Name and Ticker or Trading Symbol ADHEREX TECHNOLOGIES INC [ ADHXF						5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
Andrade Robert					]						X	Director			10% Ow	ner		
(Last) (First) (Middle)					,						X	Officer ( below)	Officer (give title below)			pecify		
C/O ADHEREX TECHNOLOGIES INC.					3. Date of Earliest Transaction (Month/Day/Year) 08/18/2010						NA							
501 EASTOWNE DRIVE, SUITE 140					J/ 10/ 2	.010												
Street)				4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Ind Line)	6. Individual or Joint/Group Filing (Check Applicable Line)						
CHAPEL HILL, NC 27514										X	, ,							
												Form filed by More than One Reporting Person						
(City)	(5	State)	(Zip)															
		Ta	able I - Non-	Derivativ	ve Se	curities	Acqu	iired,	Disp	osed	of, o	r Bene	ficially	Owned				
Date				2. Transactio Date (Month/Day/\	Execution Date,		, Transaction Dispo		curities Acquired (A) o osed Of (D) (Instr. 3, 4					6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature o ndirect Beneficial Ownership Instr. 4)		
							Code	v	Amou	nt	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		"		əu. 4)	
Common Shares														780,100			D	
			Table II - D	erivative e.g., puts				,	•		,		•	wned				
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/Yea	Code (In	ction nstr.	on of Expira		e Exercisable and tion Date h/Day/Year)		and	Securit Derivat	and Amo ies Unde ive Secui 3 and 4)	rlying	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securitie Beneficia Owned Following Reported Transact (Instr. 4)	Ownershi Form: Direct (D) or Indirect (I) (Instr. 4 d tion(s)		11. Natu of Indire Benefici Ownersh (Instr. 4)

Date Exercisable

 $08/18/2010^{\left(1\right)}$ 

Expiration Date

08/18/2017

Title

Stock

## Explanation of Responses:

**\$0.045**<sup>(2)</sup>

- 1. The options will vest 100% on the date reported above and were issued in AHX (TSX listed shares).
- 2. in CDN

Common Stock

Options

(right to buy)

/s/ Robert Andrade

\*\* Signature of Reporting Person

Amount or

Number of

17,493,939

\$0

08/18/2010

Date

17,493,939

D

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

08/18/2010

 $^{\star}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

08/18/2010

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Code V

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.

and 5)

(A) (D)

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