FORM 3

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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

1. Name and Address of Reporting Person*  PORTER ARTHUR T  (Last) (First) (Middle)  4620 CREEKSTONE DRIVE, SUITE 200  (Street)  DURHAM NC 27703		2. Date of Event Requiring Statement (Month/Day/Year) 02/21/2007		Issuer Name and Ticker or Tra ADHEREX TECHNO      Relationship of Reporting Pers (Check all applicable)     X Director     Officer (give title below)	on(s) to Issuer  10% Owner Other (specify		If Amendment, Date of Original Filed Individual or Joint/Group Filing (Check Oplicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person		
(City)	(State)	(Zip)							
		-	Гable I - Nor	n-Deriva	tive Securities Beneficial	ly Owned			
1. Title of Security (Instr. 4)				2. Amount of Securities Beneficially Owned (Instr. 4)			Nature of Indirect Beneficial Ownership nstr. 5)		
		(e.			e Securities Beneficially ants, options, convertible		s)		
1. Title of Derivative Security (Instr. 4)			2. Date Exercisable an Expiration Date (Month/Day/Year)		d 3. Title and Amount of Secur Underlying Derivative Securi		4. Conversion or Exercise	5. Ownership Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)
			Date Exercisable	Expiratio Date	on Title	Amount or Number of Shares	Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)	
Stock Options	(Right to buy)								
· •			02/28/2007 <sup>(1)</sup>	02/28/2014	4 Common Stock	50,000	0.28	D	
	(Right to buy)		02/28/2007 <sup>(1)</sup> 12/14/2006 <sup>(2)</sup>	02/28/2014		50,000 2,500	0.28 0.88	D D	
Stock Options	(Right to buy) (Right to buy)				2 Common Stock				
Stock Options Stock Options			12/14/2006 <sup>(2)</sup>	12/14/2012	2 Common Stock 2 Common Stock	2,500	0.88	D	
Stock Options Stock Options Stock Options	(Right to buy)		12/14/2006 <sup>(2)</sup> 05/18/2006 <sup>(2)</sup>	12/14/2012	2 Common Stock 2 Common Stock 2 Common Stock	2,500 18,621	0.88	D D	
Stock Options Stock Options Stock Options Stock Options	(Right to buy) (Right to buy)		12/14/2006 <sup>(2)</sup> 05/18/2006 <sup>(2)</sup> 09/21/2006 <sup>(2)</sup>	12/14/2012 05/18/2012 09/21/2012	2 Common Stock 2 Common Stock 2 Common Stock 1 Common Stock	2,500 18,621 30,000	0.88 1.2 1.2	D D	

## Explanation of Responses:

- 1. The options to which this note relates are subject to vesting in three (3) installments with one-third vesting immediately and the remaining shares vesting on the first and second anniversary of the Grant Date reported above.
- 2. The options to which this note relates vest in three (3) equal installments beginning on the date reported above.
- 3. Exercise price for these options are in Canadian Dollars.

D. Scott Murray, Attorney-in-Fact 03/05/2007

\*\* 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 5 (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.

Know all by these presents that the undersigned hereby constitutes and appoints each of D. Scott Murray, James A. Klein, Jr. and Donald R. Reynolds, and each of them acting alone, signing singly, the undersigned's true and lawful attorney-in-fact to: (1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director and/or 10% or more stockholder of Adherex Technologies, Inc. (the "Company"), Forms ID, 3, 4 and 5 and Schedules 13D or 13G (and any amendments thereto) under Section 13(d) and 16(a) of the Securities Exchange Act of 1934, as amended (the "1934 Act") in accordance with the 1934 Act, and the rules promulgated thereunder; (2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form or Schedule (and any amendments thereto) and to file timely such Form or Schedule with the United States Securities and Exchange Commission and any stock exchange or similar authority; and (3) take a ny other action of any type whatsoever in connection with the foregoing which in the opinion of such attorney-in-fact may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 13(d) or 16(a) of the 1934 Act.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file such Forms or Schedules with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to each of the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 20th day of February 2007.

/s/ Arthur T Porter