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 Ad <u>KLEIN JA</u>	dress of Reporting MES A JR	Person <sup>*</sup>	2. Date of Event Requiring Statement (Month/Day/Year) 02/21/2007		3. Issuer Name and Ticker or Trading Symbol <u>ADHEREX TECHNOLOGIES INC</u> [ AMEX:ADH ]					
(Last) (First) (Middle) 4620 CREEKSTONE DRIVE, SUITE 200		02/21/2007		4. Relationship of Reporting Pers (Check all applicable) Director X Officer (give title	10% Owne Other (spec	r (Mon 03/0 cify	5. If Amendment, Date of Original Filed (Month/Day/Year) 03/05/2007			
(Street) DURHAM	NC	27703			A below) CFO	below)		cable Line) Form filed by	Group Filing (Check / One Reporting Person / More than One	
(City)	(State)	(Zip)						Reporting Pe	215011	
Table I - Non-Derivative Securities Beneficially Owned										
1. Title of Security (Instr. 4)					2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownershi Form: Direc or Indirect ( (Instr. 5)	t (D)   (Instr.	I. Nature of Indirect Beneficial Ownership Instr. 5)		
Table II - Derivative Securities Beneficially Owned           (e.g., puts, calls, warrants, options, convertible securities)										
1. Title of Derivative Security (Instr. 4)			2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise	5. Ownership Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
			Date Exercisable	Expiration Date	n 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		
Stock Options (Right to buy)		12/14/2006 <sup>(2)</sup>	12/14/2012	2 Common Stock	39,000	0.88	D			
Stock Options (Right to buy)			09/21/2006 <sup>(2)</sup>	09/21/2012	2 Common Stock	13,500	1.2	D		
Stock Options (Right to buy)			12/17/2005 <sup>(2)</sup>	12/17/2011	Common Stock	5,000	1.95 <sup>(3)</sup>	D		
Stock Options (Right to buy)			07/24/2004 <sup>(4)(5)</sup>	04/26/2011	Common Stock	200,000	2.65 <sup>(3)</sup>	D		
Stock Options (Right to buy)		12/17/2004 <sup>(6)(5)</sup>	05/21/2011	1 Common Stock	15,000	2.9 <sup>(3)</sup>	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.

4. The options to which this note relates vest in four (4) equal installments on 7/24/2004, 4/26/2005, 4/26/2006 and 4/26/2007

5. This Form is being amended due to a miscalculation in the Exerciseable Date/Vesting schedule previously reported for these options.

6. The options to which this note relates are subject to vesting in three (3) installments on 12/17/2004, 5/21/2006 and 5/21/2007.

D. Scott Murray, Attorney-in-	03/16/2007	
<u>Fact</u>		
** 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 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.

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