

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934  
or Section 30(h) of the Investment Company Act of 1940

<b>1. Name and Address of Reporting Person*</b> <u>KUFE DONALD W</u>  (Last) (First) (Middle) 4620 CREEKSTONE DRIVE, SUITE 200  (Street) DURHAM NC 27703  (City) (State) (Zip)	<b>2. Date of Event Requiring Statement (Month/Day/Year)</b> 02/21/2007	<b>3. Issuer Name and Ticker or Trading Symbol</b> <u>ADHEREX TECHNOLOGIES INC [ AMEX:ADH ]</u>  <b>4. Relationship of Reporting Person(s) to Issuer (Check all applicable)</b> <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)	<b>5. If Amendment, Date of Original Filed (Month/Day/Year)</b> 03/05/2007  <b>6. Individual or Joint/Group Filing (Check Applicable Line)</b> <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person
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### Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
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### 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 Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Stock Options (Right to buy)	02/28/2007 <sup>(1)</sup>	02/28/2014	Common Stock	50,000	0.28	D	
Stock Options (Right to buy)	12/14/2006 <sup>(2)</sup>	12/14/2012	Common Stock	2,500	0.88	D	
Stock Options (Right to buy)	05/18/2005 <sup>(3)(4)</sup>	05/18/2012	Common Stock	1,000	1.2	D	
Stock Options (Right to buy)	05/18/2006 <sup>(2)</sup>	05/18/2012	Common Stock	18,621	1.2	D	
Stock Options (Right to buy)	09/21/2006 <sup>(2)</sup>	09/21/2012	Common Stock	40,000	1.2	D	
Stock Options (Right to buy)	05/03/2003	05/03/2010	Common Stock	4,000	1.7 <sup>(5)</sup>	D	
Stock Options (Right to buy)	05/21/2004	05/21/2011	Common Stock	4,000	2.9 <sup>(5)</sup>	D	
Stock Options (Right to buy)	03/31/2004	03/01/2011	Common Stock	1,000	3.25 <sup>(5)</sup>	D	
Stock Options (Right to buy)	03/01/2005 <sup>(2)</sup>	03/01/2011	Common Stock	18,621	3.25 <sup>(5)</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. The options to which this note relates vested 100% on the date reported above.
4. This Form is being amended due to a miscalculation in the Exercisable Date/Vesting schedule previously reported for these options.
5. Exercise price for these options are in Canadian Dollars.

D. Scott Murray, Attorney-in-Fact      03/16/2007

\*\* 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.