FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	VAL					
	OMB Number:	3235-0287					
l	Estimated average burde	n					
	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 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* KLEIN JAMES A JR				<u>A</u>	2. Issuer Name and Ticker or Trading Symbol ADHEREX TECHNOLOGIES INC [AMEX:ADH] 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner V Officer (give title Other (specify									ner					
(Last) (First) (Middle) 4620 CREEKSTONE DRIVE, SUITE 200					3. Date of Earliest Transaction (Month/Day/Year) 04/30/2007 X Unice (give title below) CFO														
(Street) DURHAM NC 27703				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting						
(City) (State) (Zip)					Person														
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (I		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4					Forn Ily (D) o ollowing (I) (Ir		m: Direct II or Indirect E nstr. 4) C	7. Nature of ndirect Beneficial Ownership Instr. 4)		
									Code	v	Amount	(A) o	Price	Transacti		on(s)			,
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date Execution (Month/Day/Year) if any	3A. Deemed Execution Da if any (Month/Day/Y	Co	unsaction de (Instr.		5. Number of 6. Derivative Ex		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		8. Price of Derivative Security		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	e S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Co	ode	v	(A)	(D)	Date Exercisable		Expiration Date	Title	Amoun or Numbe of Shar	er		(Instr. 4)	on(s)		
Stock Options (Right to buy)	\$0.28								02/28/200	7	02/28/2014	Common Stock	50,00	00		50,000	0	D	
Stock Options (Right to buy)	\$0.88								12/14/200	6	12/14/2012	Common Stock	39,00	00		39,000	0	D	
Stock Options (Right to buy)	\$1.2								09/21/200	6	09/21/2012	Common Stock	13,50	00		13,500		D	
Stock Options (Right to buy)	\$1.95								12/17/200	5	12/17/2011	Common Stock	5,00	0		5,000)	D	
Stock Options (Right to buy)	\$2.65								07/24/200	14	04/26/2011	Common Stock	200,0	000		200,00	00	D	
Stock Options (Right to buy)	\$2.9								12/17/200	4	05/21/2011	Common Stock	15,00	00		15,000	0	D	
Stock Options (Right to	\$0.63	04/30/2007		1	A		900,000		04/30/2007	(1)	04/30/2014	Common Stock	900,0	000	\$0	900,00	00	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.

D. Scott Murray, Attorney-in-

Fact

** Signature of Reporting Person

Date

05/02/2007

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.