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* Spector Thomas 2. Date of Event Requiring Statement (Month/Day/Year) 07/07/2009			nent	3. Issuer Name and Ticker or Trading Symbol ADHEREX TECHNOLOGIES INC [ADHXF]							
(Last) (First) (Middle) C/O ADHEREX TECHNOLOGIES INC.		OGIES INC.			Relationship of Reporting Person(s) to Issue (Check all applicable) Director 10% Owner Office (control of the control of the co			er	5. If Amendment, Date of Original Filed (Month/Day/Year)		
4620 CREEKSTONE DRIVE, SUITE 200					X	Officer (give title below)	Other (specify below)		6. Individual or Joint/Group Filing (Check Applicable Line)		
(Street) DURHAM	NC	27703				Chief Scientific C	Officer		X		y One Reporting Person y More than One erson
(City)	(State)	(Zip)									
		Т	able I - Non	-Derivat	ive Se	curities Beneficially	y Owned				
1. Title of Security (Instr. 4)					lly Owned (Instr. 4)			4. Nature of Indirect Beneficial Ownership (Instr. 5)			
No securities beneficially owned						0	D				
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)											
1. Title of Derivative Security (Instr. 4) 2. Date Exercisable Expiration Date (Month/Day/Year)			ate	3. Title and Amount of Securi Underlying Derivative Securi				rcise	5. Ownership Form:	(Instr. 5)	
							Amount or Number	Deriva Securi	tive	Direct (D) or Indirect (I) (Instr. 5)	

Explanation of Responses:

/s/ Donald R. Reynolds, by 07/17/2009 Power of Attorney

** 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.

Known all by these presents that the undersigned hereby constitutes and appoints each of 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% more stockholder of Adherex Technologies, Inc. (the "Company"), Forms ID, 3, 4 and 5 (and any amendments thereto) in accordance with Section 16(a) of the Securities Exchange Act of 1934, as amended (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 ID, 3, 4 or 5 or Schedule (and any amendments thereto) and to file timely such form with the United States Securities and Exchange Commission and any stock exchange or similar authority; and (3) take any 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, 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-infact 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-infact'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 undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 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 Form ID, 3, 4, or 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney ${\sf N}$

signed writing delivered to each of the foregoing attorneys-in-fact.

the

undersigned in a

executed as of this 10th day of July 2009.

/s/ Thomas Spector Thomas Spector