## FORM 4

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

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB	APPROVAL

OMB Number: 3235-0287 Estimated average burden 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 Se	ection 30(h)	of th	e Investment	Com	pany Act	of 1940									
1. Name and Address of Reporting Person*  Peters William P					ADHEREX TECHNOLOGIES INC [ (Chec										Relationship of Reporting Person(s) to Issuer neck all applicable)  X Director 10% Owner					
(Last) (First) (Middle) 4620 CREEKSTONE DRIVE, SUITE 200					3. Date 04/30/		Trans	saction (Montl	n/Da	y/Year)	X Officer (give title Other (specify below) below)  Chairman and CEO									
(Street) DURHAM NC 27703					4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person						
(City)	(\$	State)	(Zip)											Form life	и ву моге	e man C	ле кероп	ing Person		
		-	Table I - Non			_			isp	osed o	f, or Be	nefic	cially C	Owned						
			2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date if any (Month/Day/Yea		Code (Instr.						5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
							Code	/	Amount	(A) ( (D)	(A) or (D) Price		Transaction/c		(s) 4)					
Common	Stock													165,9	982		D			
			Table II - I (					quired, Dis	•				-	vned						
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year	4. Transaction Code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisal Expiration Date (Month/Day/Year)		le and	7. Title an Securities Derivative	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title		ount or ober of res	Tra		action(s)				
Stock Options (Right to buy)	\$0.28							02/28/2007	02	2/28/2014	Common Stock	40	0,000		400,000		D			
Stock Options (Right to buy)	\$0.88							12/14/2006	12	2/14/2012	Common Stock	30	),000		30,000		D			
Stock Options (Right to buy)	\$1.1							10/14/2006	10	0/14/2012	Common Stock	15	0,000		150,000		D			
Stock Options (Right to buy)	\$1.2							04/05/2005	04	4/05/2012	Common Stock	63	3,601		633,601		D			
Stock Options (Right to buy)	\$1.65							02/19/2003	02	2/19/2010	Common Stock	75	0,000	750		0,000 D				
Stock Options (Right to buy)	\$1.95							12/17/2004	12	2/17/2011	Common Stock	32	2,000	32,00		00	D			
Stock Options (Right to buy)	\$2.25							12/30/2003	12	2/30/2010	Common Stock	77	0,217	770,217		217	D			
Stock Options (Right to buy)	\$2.9							05/21/2004	05	5/21/2011	Common Stock	23	4,000		234,000		D			
Stock Options (Right to buy)	\$0.63	04/30/2007		A		3,000,000		04/30/2007 <sup>(1)</sup>	04	4/30/2014	Common Stock	3,0	00,000	\$0	3,000,	.000	D			
Warrants (Right to buy)	\$0.4							02/21/2007	02	2/21/2010	Common Stock	25	5,000		25,0	00	D			
Warrants (Right to buy)	\$2.15							12/19/2003	12	2/19/2008	Common Stock	30	),591		30,5	91	D			
Warrants (Right to buy)	\$2.75							06/23/2003	00	6/23/2007	Common Stock	15	5,566		15,5	66	D			

## **Explanation of Responses:**

above.

D. Scott Murray, Attorney-in-Fact

05/02/2007

\*\* Signature of Reporting Person

Data

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.