FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL								
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REYNOLDS FRANCIS			2. Issuer Name and Ticker or Trading Symbol INVIVO THERAPEUTICS HOLDINGS	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
			CORP. [NVIV]	X	Director	Х	10% Owner		
(Last)	(First)	(Middle)		X	Officer (give title below)		Other (specify below)		
C/O INVIVO TH CORP.	IERAPEUTICS H	IOLDINGS	3. Date of Earliest Transaction (Month/Day/Year) 02/28/2013		CEO, O	CFO			
ONE KENDALL	SQUARE, SUIT	E B14402							
,			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv	ridual or Joint/Group F	iling (Check Applicable		
(Street) CAMBRIDGE MA 02139		02139		X	Form filed by One F Form filed by More Person	•	•		
(City)	(State)	(Zip)							

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)	3. Transa Code (8)		4. Securities Disposed Of 5)			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	v	Amount	nount (A) or (D)		Transaction(s) (Instr. 3 and 4)		(1150.4)	
COMMON STOCK	02/28/2013		S ⁽¹⁾		2,250	D	\$2.01	13,565,560	D		
COMMON STOCK	02/28/2013		S ⁽¹⁾		1,000	D	\$2.02	13,564,560	D		
COMMON STOCK	02/28/2013		S ⁽¹⁾		1,000	D	\$2.03	13,563,560	D		
COMMON STOCK	03/01/2013		S ⁽¹⁾		1,000	D	\$2.07	13,562,560	D		
COMMON STOCK	03/01/2013		S ⁽¹⁾		1,000	D	\$2.08	13,561,560	D		
COMMON STOCK	03/01/2013		S ⁽¹⁾		2,250	D	\$2.13	13,559,310	D		
COMMON STOCK	03/04/2013		S ⁽¹⁾		4,250	D	\$2.18	13,555,060	D		
COMMON STOCK								19,579	I	By 401(k) Plan	

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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		of Deriv Secu Acqu (A) or Dispo of (D) (Instr	5. Number of Expiration Date Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		7. Title Amour Securi Underl Deriva Securi and 4)	nt of ties ying tive ty (Instr. 3	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v			Date Expiration Exercisable Date		Title	Amount or Number of Shares			

Explanation of Responses:

1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on December 4, 2012.

/S/ ELIZABETH FRASER, AS 03/04/2013

ATTORNEY IN FACT

** 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 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.