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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 OMB Number: 3235-0287 Estimated average burden hours per response: 0.5

1. Name and Add	1 6	•	2. Issuer Name and Ticker or Trading Symbol INVIVO THERAPEUTICS HOLDINGS	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
REYNOLDS FRANCIS			CORP. [NVIV]	X	Director	Х	10% Owner		
(Last)	(First)	(Middle)		x	Officer (give title below)		Other (specify below)		
C/O INVIVO CORP.	THERAPEUT	TICS HOLDINGS	3. Date of Earliest Transaction (Month/Day/Year) 12/27/2012		CEO, CFO				
ONE KENDALL SQUARE, SUITE B14402				<u> </u>					
			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	dividual or Joint/Group Filing (Check Applicable				
(Street)				X	Form filed by One	Repor	ting Person		
CAMBRIDGI	E MA	02139	_		Form filed by More Person	than (One Reporting		
(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. Transaction Code (Instr. 8)					5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)
COMMON STOCK	12/27/2012		S ⁽¹⁾		4,250	D	\$1.8	14,313,910	D	
COMMON STOCK	12/28/2012		S ⁽¹⁾		2,000	D	\$1.815	14,311,910	D	
COMMON STOCK	12/28/2012		S ⁽¹⁾		2,250	D	\$1.85	14,309,660	D	
COMMON STOCK	12/31/2012		S ⁽¹⁾		2,250	D	\$1.8	14,307,410	D	
COMMON STOCK	12/31/2012		S ⁽¹⁾		2,000	D	\$1.84	14,305,410	D	
COMMON STOCK								13,603	Ι	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)				6. Date Exerc Expiration Da (Month/Day/Y	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 Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration 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 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.