FORM 4

obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP Check this box if no longer subject to Section 16. Form 4 or Form 5

OMB APPROVAL OMB Number:

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1. Name and Address of Reporting Person*							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			2	X 10% C)wner	
(Last) (First) (Middle)									_							X	Offic	er (give title w)		Other below)	(specify	
C/O INVIVO THERAPEUTICS HOLDINGS CORP.							3. Date of Earliest Transaction (Month/Day/Year) 01/07/2013											CEC	O, CF	· 0		
ONE KENDALL SQUARE, SUITE B14402									_													
						4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line)						
CAMBRIDGE MA 02139																X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City) (State) (Zip)																						
			Tabl	e I - Nor	n-Deriv	ative	Se	curitie	s Acc	uired,	Dis	posed o	of, o	r Ben	efici	ally C	wn	ed				
Date					Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Transaction Code (Instr.		4. Securities Acquired (Disposed Of (D) (Instr. 3 5)			3, 4 and		5. Amount of Securities Beneficially Owned Following		ownership m: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership	
										Code	v	Amount		(A) or (D)	Pric	<u>. I</u>		ted action(s) 3 and 4)			(Instr. 4)	
COMMON STOCK						01/07/2013						2,000	0	D \$		1.9	9 14,290,660			D		
COMMO	01/07/2013					S ⁽¹⁾		2,250	0	D	D \$1.9		5 14,288,410			D						
COMMON STOCK					01/08/2013					S ⁽¹⁾		1,000	0	D \$2		.06	6 14,287,410			D		
COMMON STOCK					01/08/2013					S ⁽¹⁾		1,000	0	D	\$2.07		14,286,410			D		
COMMON STOCK					01/08/2013							2,250	0	D	\$2.12		14,284,160			D		
COMMON STOCK					01/09/2013					S ⁽¹⁾		2,000	00 D		\$2.17		14,282,160			D		
COMMON STOCK					01/09/2013					S ⁽¹⁾	S ⁽¹⁾		2,250		\$2.25		14,279,910			D		
COMMON STOCK																	13,603			I	By 401(k) Plan	
			Та	ble II - E						,		sed of, onvertib				•	ned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	ed Date,	4. Transaction Code (Instr. 8)		5. Number 6		6. Date Expiration	b. Date Exerciss Expiration Date Month/Day/Yea		7. 1 Am Sec Und Dei	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Prio Deriva Secur (Instr.	itive ity	9. Number of derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)	,	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
							v	(4)		Date Evercisal		Expiration	Tiel	Amo or Nun of								

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 01/09/2013 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.