FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Washington, D.C. 20549

OMB APPRO	VAL					
OMB Number:	3235-0287					
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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 Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  REYNOLDS FRANCIS	<u>INVI</u>	2. Issuer Name and Ticker or Trading Symbol INVIVO THERAPEUTICS HOLDINGS CORP. [ NVIV ]					S. Relationship of Reporting Person(s) to Issuer (Check all applicable)     X Director X 10% Owner     X Officer (give title Other (specify below))			
(Last) (First) (Middle) C/O INVIVO THERAPEUTICS HOLDINGS CORP. ONE KENDALL SQUARE, SUITE B14402		3. Date of Earliest Transaction (Month/Day/Year) 02/14/2013					below) below) CEO, CFO			
(Street)  CAMBRIDGE MA 02139  (City) (State) (Zip)	4. If Am	4. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual or Joint/Group Filing (Check Applicatine)  X Form filed by One Reporting Person Form filed by More than One Reporting Person								
1. Title of Security (Instr. 3)	Derivative Se . Transaction Date Month/Day/Year)	ction 2A. Deemed Execution Date,		quired, Disposed of, or Benefi 3.			Owned  5. Amount of Securities Beneficially	6. Ownership Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial	
	, ,	(Month/Day/Year)	8) Code V	Amount	(A) or (D)	Price	Owned Following Reported Transaction(s) (Instr. 3 and 4)	(I) (Instr. 4)	Ownership (Instr. 4)	
COMMON STOCK	02/14/2013		S <sup>(1)</sup>	4,150	D	\$1.72	13,772,910	D		
COMMON STOCK	02/14/2013		S <sup>(1)</sup>	100	D	\$1.73	13,772,810	D		
COMMON STOCK	02/15/2013		S <sup>(1)</sup>	1,000	) D	\$1.9	13,771,810	D		
COMMON STOCK	02/15/2013		S <sup>(1)</sup>	1,000	D	\$1.91	13,770,810	D		
COMMON STOCK	02/15/2013		S <sup>(1)</sup>	1,000	D	\$1.97	13,769,810	D		
COMMON STOCK	02/15/2013		S <sup>(1)</sup>	1,250	D	\$1.99	13,768,560	D		
COMMON STOCK	02/19/2013		S <sup>(1)</sup>	2,250	) D	\$1.68	13,766,310	D		
COMMON STOCK	02/19/2013		S <sup>(1)</sup>	1,000	) D	\$1.74	13,765,310	D		
COMMON STOCK	02/19/2013		S <sup>(1)</sup>	1,000	) D	\$1.84	13,764,310	D		
COMMON STOCK							19,579	I	By 401(k) Plan	
		urities Acquir s, warrants, o					wned			
1. Title of Derivative Security (Instr. 3)  2. Conversion or Exercise Price of Derivative Security  Security Security Security Security	4. Transactio Code (Inst	4. 5. Number 6. Transaction Code (Instr. Derivative (N		6. Date Exercisable and Expiration Date (Month/Day/Year)		8. Price Derivati Security (Instr. 5	vative derivative urity Securities	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
	Code V			Expiration Date	Amo or Num of Title Shar	ber				

## **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 02/19/2013 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.