## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

Check this box if no longer subject to	
Section 16. Form 4 or Form 5	
obligations may continue. See	
Instruction 1(b).	

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	VAL
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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					IN	2. Issuer Name <b>and</b> Ticker or Trading Symbol  INVIVO THERAPEUTICS HOLDINGS  CORP. [ NVIV ]										all app Direc		g Pers	10% C	)wner	
(Last) (First) (Middle) C/O INVIVO THERAPEUTICS HOLDINGS CORP.					3. Date of Earliest Transaction (Month/Day/Year) 04/04/2013									X	Officer (give title below)  CEO, CFO  Other (specify below)						
ONE KENDALL SQUARE, SUITE B14402 (Street)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person						
CAMBRIDGE MA 02139  (City) (State) (Zip)															Form filed by More than One Reporting Person					orting	
		Tabl	e I - Nor	n-Deriv	ative	Se	curiti	es Ac	quired,	Dis	posed o	f, or	Ben	efici	ally (	Owne	ed				
Date				Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (	Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			l and Securi Benefi Owned		cially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(	A) or D)	Price			action(s) 3 and 4)			(Instr. 4)	
COMMO	N STOCK			04/04	1/2013	/2013					4,250		D	\$2.7	<sup>7</sup> 1 <sup>(2)</sup>	13,	13,461,560		D		
COMMON STOCK 04/05/				5/2013	2013		S <sup>(1)</sup>		4,250		D	\$2.8	\$2.82(3)		13,457,310		D				
COMMON STOCK															1	9,579		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  (Month/Day/Year)  3. Transaction Date (Month/Day/Year)  (Month/Day/Year)  (Month/Day/Year)		Date,		ransaction of De Se Ac (A) Dis		of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		on Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		nstr. 3	Deriv Secu	rice of ivative surity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction( (Instr. 4)	Ov Fo Di or (I)	vnership orm: rect (D) Indirect (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
	Code V		(A)	(D)	Date Exercisa	exercisable Date		Title Share		ares											

## **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.
- 2. The price reported in column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$2.52 to \$2.94, inclusive. The reporting person undertakes to provide InVivo Therapeutics Holdings Corp. ("InVivo"), any security holder of InVivo, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnotes 2 through 3.
- 3. The price reported in column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$2.75 to \$2.90, inclusive.

/s/ Francis Revnolds 04/05/2013

\*\* 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.