FORM 4

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

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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							2. Issuer Name and Ticker or Trading Symbol INVIVO THERAPEUTICS HOLDINGS CORP. [NVIV]											k all app Dired		X	10% C	wner
(Last) (First) (Middle) C/O INVIVO THERAPEUTICS HOLDINGS CORP.							3. Date of Earliest Transaction (Month/Day/Year) 03/08/2013										X	Offic below	′		Other (below)	(specify
ONE KENDALL SQUARE, SUITE B14402 (Street) CAMBRIDGE MA 02139						4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)										Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)		(Sta		Zip)																		
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transa Date (Month/D								2A. Deemed Execution Date, if any (Month/Day/Year)		3. Tran	3. Transaction Code (Instr.		4. Securities Acquired (Disposed Of (D) (Instr. 3			d (A)	(A) or 53, 4 and 6		5. Amount of Securities Beneficially Owned Following Reported		ship rect lirect 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
										Code	v		Amount		(A) or (D)	Pri	се	Trans	action(s) 3 and 4)			(111511.4)
COMMON STOCK 03/08						/2013	/2013			S ⁽¹⁾	S ⁽¹⁾		3,950		D	\$2.15		13,538,360		D		
COMMO	N STO	CK			03/08	3/2013				S ⁽¹⁾			300		D	\$2.26		13,538,060		D		
COMMON STOCK 03/11							3			S ⁽¹⁾			4,250		D	\$2.14		13,533,810		D		
COMMON STOCK 03/12							2/2013						950		D	\$2.2		13,532,860		D		
COMMON STOCK 03/12							2/2013						2,100		D	\$2.21		13,530,760		D		
COMMON STOCK 03/12						/2013			S ⁽¹⁾		T	1,200		D	\$2.22		13,529,560		D			
COMMON STOCK																		1	19,579			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 (Instr. 3) Price of Derivative Security 3. Transaction Date (Month/Day/Year) (Month/Day/Year) 34. Deemed Execution Date, if any (Month/Day/Year)				Date,	i. Fransaction Code (Instr. I)		n of De Se Ac (A) Dis of	posed	6. Date	on Da	ate 'ear		or			Deri Sec (Ins	rice of varive derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)		Owner Form Director Inc (I) (In:	t (D) lirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code	V	(A)	(D)	Exercis	able		ate	Title		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 on December 4, 2012.

/S/ ELIZABETH FRASER, AS 03/12/2013 **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.