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

CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burd	en								
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	<u>IN</u>	2. Issuer Name and Ticker or Trading Symbol INVIVO THERAPEUTICS HOLDINGS CORP. [NVIV]								(Check	Officer (give title Other /			
(Last) (First) (Middle) C/O INVIVO THERAPEUTICS HOLDINGS CORP.		3. Date of Earliest Transaction (Month/Day/Year) 12/06/2012							X	belov	v)	below)		
ONE KENDALL SQUARE, SUITE B14402 (Street) CAMBRIDGE MA 02139 (City) (State) (Zip)	4. If	f Ameno	dment, C	Date of	Original I	Filed	(Month/Da	y/Year)		6. Indiv Line)	Form	n filed by One n filed by Mor	Filing (Check A Reporting Pers e than One Rep	on
Table I - Non-	Derivative	Secu	urities	Aca	uired.	Dist	osed of	f. or E	Benefi	cially	Owne	ed		
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date,		3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			or	r 5. Amount Securities Beneficially Owned Follows		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
					Code	v	Amount	(A)	or P	rice	Repor Transa (Instr.	ted action(s) 3 and 4)		(Instr. 4)
COMMON STOCK	12/06/2012	2			S ⁽¹⁾		3,750		D S	1.65	14,	373,910	D	
COMMON STOCK	12/06/2012	2			S ⁽¹⁾		500) D		\$1.66		373,410	D	
COMMON STOCK	12/07/2012	2			S ⁽¹⁾		250		D S	\$1.67 14,		373,160	D	
COMMON STOCK	12/07/2012	2			S ⁽¹⁾		1,500 Г		D S	\$1.68	14,	371,660	D	
COMMON STOCK	12/07/2012	2			S ⁽¹⁾		2,500		D S	\$1.69		369,160	D	
COMMON STOCK	12/10/2012	2			S ⁽¹⁾		3,950	D \$		1.66	14,365,210		D	
COMMON STOCK	12/10/2012	2			S ⁽¹⁾ 300			D S	\$1.67 1		364,910	D		
COMMON STOCK											1	3,603	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 1. Title of Derivative Security 2. Conversion or Exercise Price of Derivative Security 3. Transaction Date (Month/Day/Year) 3A. Deemed Execution Date, if any (Month/Day/Year)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		tive (ities ed	i. Date Ex Expiration Month/Da	ercisa Date	able and	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Price of Derivative Security (Instr. 5)			Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
Explanation of Responses:	Code V (A) (D) Date Expiration Of N of State Expiration Date Title State State Code V (A) (B) Exercisable Date Title State State Code State Stat		Amour or Number of Shares	r										

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 12/10/2012 **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.