FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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0.5

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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	Secti	ion 30(h) of the	Ínvestr	nent (Com	pany Act	of 194	40									
1. Name and Address of Reporting Person* REYNOLDS FRANCIS						IN	2. Issuer Name and Ticker or Trading Symbol INVIVO THERAPEUTICS HOLDINGS CORP. [NVIV]										5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director X 10% Owner							
(Loot)		/Circ	.+) (Middle		_			-								X	Office	er (give title		Other (below)	specify		
(Last) (First) (Middle) C/O INVIVO THERAPEUTICS HOLDINGS CORP.							3. Date of Earliest Transaction (Month/Day/Year) 12/21/2012											CEO, CFO						
ONE KENDALL SQUARE, SUITE B14402						4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)												. Individual or Joint/Group Filing (Check Applicable					
(Street)		MA)2139												l	Line)							
(City)		(Sta		Zip)																				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																							
1. Title of Security (Instr. 3) 2. Trans. Date (Month/I						2A. Deemed Execution Date, if any (Month/Day/Year)		, Tra	3. Transaction Code (Instr. 8)							Securi Benefi Owner	cially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership				
										Co	de \	,	Amount		(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)		
COMMON STOCK					12/2	12/21/2012					1)		3,750)	D	\$1	.62	14,327,160		D				
COMMON STOCK					12/2	12/21/2012					1)		500		D	\$1.63		14,326,660		D				
COMMON STOCK					12/24	2/24/2012				S	1)		2,000)	D	\$1.63		14,324,660			D			
COMMON STOCK 12/					12/2	4/201	2			S ⁽	1)		2,250)	D	\$1.64		14,322,410			D			
COMMON STOCK 1					12/20	6/201	2			S ⁽	1)		4,250		D	\$1.65		14,318,160		D				
COMMON STOCK																		13,603			I	By 401(k) Plan		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																							
Derivative Conversion Date Execused Security Or Exercise (Month/Day/Year) if any				if any	ecution Date, T		action (Instr	n of T. De Se Ac (A) Dis of (In	Number rivative curities quired or sposed (D) str. 3, 4 d 5)	Expira (Mont	tion [Date /Yea		or Nu		ı	Deri Sec	rice of vative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	((10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
						Code	v	(A)	(A) (D)		Date Exercisable		xpiration ate	Title		of Shares								

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 ATTORNEY IN FACT 12/26/2012

** 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.