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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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL									
OMB Number: 3235-028									
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hours per response:	0.5								

1. Name and Address of Reporting Person [*] REYNOLDS FRANCIS			2. Issuer Name and Ticker or Trading Symbol <u>INVIVO THERAPEUTICS HOLDINGS</u> <u>CORP.</u> [NVIV]		tionship of Reportin all applicable) Director	g Perso X	on(s) to Issuer 10% Owner
(Last)	(First)	(Middle)		X	Officer (give title below)		Other (specify below)
C/O INVIVO THERAPEUTICS HOLDINGS CORP.		IOLDINGS	3. Date of Earliest Transaction (Month/Day/Year) 05/02/2013		CEO	, CFO	
ONE KENDAL	L SQUARE, SUIT	TE B14402	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv	idual or Joint/Group	Filing (Check Applicable
(Street) CAMBRIDGE	МА	02139		Line) X	Form filed by One Form filed by Mor Person	•	0
(City)	(State)	(Zip)					

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.					5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)
COMMON STOCK	05/02/2013		S ⁽¹⁾		4,250	D	\$3.06 ⁽²⁾	13,376,560	D	
COMMON STOCK	05/03/2013		S ⁽¹⁾		4,250	D	\$3.01 ⁽³⁾	13,372,310	D	
COMMON STOCK								19,579	I	By 401(k) plan

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

(e.g., puts, calls, warrants, options, convertible securities)

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		of		6. Date Exerc Expiration Da (Month/Day/Y	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(S) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number 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.

2. The price reported in column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$2.95 to \$3.15, 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 4.

3. The price reported in column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$2.99 to \$3.08 inclusive.

/s/ Francis Reynolds

** Signature of Reporting Person

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 \ast 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.

05/03/2013

Date