

SECURITIES AND EXCHANGE COMMISSION

FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2013-01-23** | Period of Report: **2013-01-18**
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REPORTING OWNER

REYNOLDS FRANCIS

CIK: **1503383**

Type: **4** | Act: **34** | File No.: **000-52089** | Film No.: **13543310**

Mailing Address
*ONE BROADWAY
14TH FLOOR
CAMBRIDGE MA 02142*

ISSUER

INVIVO THERAPEUTICS HOLDINGS CORP.

CIK: **1292519** | IRS No.: **000000000** | State of Incorporation: **NV** | Fiscal Year End: **1231**
SIC: **3841** Surgical & medical instruments & apparatus

Mailing Address
*ONE KENDALL SQUARE
BUILDING 1400 EAST 4TH
FLOOR
CAMBRIDGE MA 02139*

Business Address
*ONE KENDALL SQUARE
BUILDING 1400 EAST 4TH
FLOOR
CAMBRIDGE MA 02139
617-863-5524*

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

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 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]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) CEO, CFO	
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 01/18/2013			
C/O INVIVO THERAPEUTICS HOLDINGS CORP., ONE KENDALL SQUARE, SUITE B14402						
(Street) CAMBRIDGE, MA 02139			4. If Amendment, Date Original Filed(Month/Day/Year)		6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person	
(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)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
COMMON STOCK	01/18/2013		<u>S</u> (<u>1</u>)		1,250	D	\$2.43	14,253,160	D	
COMMON STOCK	01/18/2013		<u>S</u> (<u>1</u>)		1,000	D	\$2.46	14,252,160	D	
COMMON STOCK	01/18/2013		<u>S</u> (<u>1</u>)		2,000	D	\$2.48	14,250,160	D	
COMMON STOCK	01/22/2013		<u>S</u> (<u>1</u>)		3,000	D	\$2.5	14,247,160	D	
COMMON STOCK	01/22/2013		<u>S</u> (<u>1</u>)		1,200	D	\$2.52	14,245,960	D	
COMMON STOCK	01/22/2013		<u>S</u> (<u>1</u>)		50	D	\$2.53	14,245,910	D	
COMMON STOCK	01/23/2013		<u>S</u> (<u>1</u>)		4,250	D	\$2.45	14,241,660	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)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of	3. Transaction Date	3A. Deemed Execution Date, if	4. Transaction Code (Instr. 8)	5. Number of Derivative	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Securities Underlying	8. Price of Derivative	9. Number of Derivative Securities Beneficially	10. Ownership Form of Derivative	11. Nature of Indirect Beneficial
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	Derivative Security	(Month/Day/Year)	any (Month/Day/Year)	Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)				Date Exercisable	Expiration Date	Derivative Security (Instr. 3 and 4)		Security (Instr. 5)	Owned Following Reported Transaction(s) (Instr. 4)	Security: Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
				Code	V	(A)	(D)			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 on December 4, 2012.

Signatures

/S/ ELIZABETH FRASER, AS ATTORNEY IN FACT

** Signature of Reporting Person

01/23/2013

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.