

REYNOLDS FRANCIS  
Form 4  
December 30, 2011

**FORM 4**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

OMB APPROVAL

OMB Number: 3235-0287  
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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).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

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

(Print or Type Responses)

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)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)  
12/28/2011

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
CEO, CFO

C/O INVIVO THERAPEUTICS HOLDINGS CORP., ONE BROADWAY, 14TH FLOOR

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

CAMBRIDGE, MA 02142

(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, \$0.00001 PAR VALUE | 12/28/2011                           |  | S                              |   | \$ 143,500  | D  |   |
|                                   |                                      |  |                                |   | 2.7362 (1)  |  |   |
|                                   |                                      |  |                                |   | 15,004,160  | D  |   |
| COMMON STOCK, \$0.00001 PAR VALUE | 11/29/2011                           |  | S                              |   | \$ 95,000   | D  |   |
|                                   |                                      |  |                                |   | 2.516 (2)   |  |   |
|                                   |                                      |  |                                |   | 14,909,160  | D  |   |

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

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SEC 1474  
(9-02)

**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 Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Beneficially Owned (Instr. 3) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--|
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--|

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |          |       |
|---|---------------|-----------|----------|-------|
|   | Director      | 10% Owner | Officer  | Other |
| REYNOLDS FRANCIS<br>C/O INVIVO THERAPEUTICS HOLDINGS CORP.<br>ONE BROADWAY, 14TH FLOOR<br>CAMBRIDGE, MA 02142 | X             | X         | CEO, CFO |       |

## Signatures

/s/ ELIZABETH FRASER, AS ATTORNEY IN FACT 12/30/2011

Signature of Reporting Person

Date

## Explanation of Responses:

- \* 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).
- (1) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$2.70 to \$2.90, 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 1 and 2 of this Form 4.
- (2) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$2.45 to \$2.60, inclusive.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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