

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 Section 30(h) of the Investment Company Act of 1940

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|--|--|--|--|--|--|--|
| 1. Name and Address of Reporting Person* <u>LANGER ROBERT</u> (Last) (First) (Middle) <u>98 MONTVALE ROAD</u> (Street) <u>NEWTON MA 02459</u> (City) (State) (Zip) | | | 2. Issuer Name and Ticker or Trading Symbol <u>INVIVO THERAPEUTICS HOLDINGS CORP. [NVIV]</u> 3. Date of Earliest Transaction (Month/Day/Year) <u>05/07/2013</u> 4. If Amendment, Date of Original Filed (Month/Day/Year) | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person | |
|--|--|--|--|--|--|--|

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 | 05/07/2013 | | S ⁽¹⁾ | | 2,500 | D | \$2.9352 ⁽²⁾ | 7,481,378 | D | |
| COMMON STOCK | 05/08/2013 | | S ⁽¹⁾ | | 2,500 | D | \$2.858 ⁽³⁾ | 7,478,878 | D | |
| COMMON STOCK | 05/09/2013 | | S ⁽¹⁾ | | 2,500 | D | \$2.9352 ⁽⁴⁾ | 7,476,378 | D | |

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 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) |
|--|--|--------------------------------------|--|--------------------------------|--|---|--|-----------------|---|--|--|---|--|
| | | | | | | | Date Exercisable | Expiration Date | | | | | |
| | | | | | 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.
2. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$2.91 to \$3.00, 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, 3 and 4.
3. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$2.85 to \$2.87, inclusive.
4. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$2.89 to \$2.97, inclusive.

/S/ ELIZABETH FRASER,
ATTORNEY-IN-FACT
** Signature of Reporting Person 05/09/2013
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.