FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

vvasimigton,	D.O. 200-0	

OMB APPROVAL

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

or Section 30(h) of the Investment Company Act of 1940 5. Relationship of Reporting Person(s) to Issuer 2. Issuer Name and Ticker or Trading Symbol 1. Name and Address of Reporting Person* (Check all applicable) **INVIVO THERAPEUTICS HOLDINGS** Lorianne Masuoka K. Director CORP. [NVIV] Officer (give title Other (specify X below) below) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) Chief Medical Officer C/O INVIVO THERAPEUTICS HOLDINGS CORP. 12/10/2015 ONE KENDALL SOUARE, SUITE B14402 4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) (Street) X Form filed by One Reporting Person **CAMBRIDGE** MA 02139 Form filed by More than One Reporting (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) 2. Transaction 2A. Deemed 7. Nature of 1. Title of Security (Instr. 3) 5. Amount of 6. Ownership Transaction **Execution Date** Securities Form: Direct Indirect (Month/Day/Year) if any (Month/Day/Year) Code (Instr. 8) Beneficially Owned Following (D) or Indirect (I) (Instr. 4) Beneficial Ownership Reported (Instr. 4) Transaction(s) (Instr. 3 and 4) Price Code Amount Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 1. Title of Derivative Security 3A. Deemed Execution Date, if any 3. Transaction 5. Number of 6. Date Exercisable and 7. Title and Amount 8. Price of 9. Number of 11. Nature Conversion Transaction Code (Instr. Ownership of Indirect Derivative Expiration Date of Securities Underlying Derivative derivative (Month/Day/Year) (Month/Day/Year) or Exercise Securities Security Securities Form: Beneficial (Instr. 3) (Month/Day/Year) Acquired (A) Beneficially Direct (D) Ownership or Indirect (I) (Instr. 4) Derivative or Disposed (Instr. 3 and 4) Owned (Instr. 4) Security of (D) (Instr. 3, 4 and 5) Following Reported Transaction(s)

Date

Exercisable

(1)

(D)

Expiration

12/10/2025

Title

Common

Explanation of Responses:

\$7.37

Stock Option

(Right to Buy)

1. The option is exercisable as to 25% of the shares on the first anniversary of the date of grant, and the remaining shares vest thereafter on a monthly basis in 36 equal monthly installments.

(A)

115,050

/s/ Elizabeth W. Fraser. 12/11/2015 Attorney-in-Fact

Amount

Number

of Shares

115,050

\$0

(Instr. 4)

115,050

D

** 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).

12/10/2015

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Code

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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