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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

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1. Name and Addres REYNOLDS		n*	2. Issuer Name and Ticker or Trading Symbol <u>INVIVO THERAPEUTICS HOLDINGS</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
(Last)	(First)	(Middle)	<u>CORP.</u> [NVIV]	X	Director Officer (give title below)	Χ	10% Owner Other (specify below)	
C/O INVIVO TH CORP.	IERAPEUTICS H	IOLDINGS	3. Date of Earliest Transaction (Month/Day/Year) 03/05/2013	CEO, CFO				
ONE KENDALL SQUARE, SUITE B14402			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Appl				
(Street) CAMBRIDGE	MA	02139		X	Form filed by O Form filed by M 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)					5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
COMMON STOCK	03/05/2013		S ⁽¹⁾		2,250	D	\$2.3	13,552,810	D	
COMMON STOCK	03/05/2013		S ⁽¹⁾		1,000	D	\$2.31	13,551,810	D	
COMMON STOCK	03/05/2013		S ⁽¹⁾		1,000	D	\$2.34	13,550,810	D	
COMMON STOCK	03/06/2013		S ⁽¹⁾		2,250	D	\$2.2	13,548,560	D	
COMMON STOCK	03/06/2013		S ⁽¹⁾		1,000	D	\$2.21	13,547,560	D	
COMMON STOCK	03/06/2013		S ⁽¹⁾		1,000	D	\$2.25	13,546,560	D	
COMMON STOCK	03/07/2013		S ⁽¹⁾		4,250	D	\$2.3	13,542,310	D	
COMMON STOCK								19,579	Ι	By 401(k) Plan

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	1																	
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 Deriv Secur Acqu (A) or Dispo of (D) (Instr			Expiration Date Amount (Month/Day/Year) Securitie Underly Derivation			Expiration Date Amount of Month/Day/Year) Securities Underlying Derivative Security (Ins			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 on December 4, 2012.

/S/ ELIZABETH FRASER, AS 03/07/2013

ATTORNEY IN FACT

** 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).

** 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.