FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

iiington, D.C. 20549	OMB APPROVAL

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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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person*     Moran Sean F.					IN	2. Issuer Name and Ticker or Trading Symbol INVIVO THERAPEUTICS HOLDINGS CORP. [ NVIV ]										all app	licable)		Person(s) to Issuer  10% Owner Other (specify			
(Last) (First) (Middle) C/O INVIVO THERAPEUTICS HOLDINGS CORP.						3. Date of Earliest Transaction (Month/Day/Year) 09/03/2013										Acti	offic					
ONE KENDALL SQUARE, SUITE B14402  (Street)  CAMBRIDGE MA 02139						4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting					
(City)		(Sta	ite) (2	Zip)													Pers					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)					ır)	Execution if any	a. Deemed ecution Date, any onth/Day/Year)		Transaction Dispose Code (Instr. 5)		ties Acquired (A) d Of (D) (Instr. 3, 4			4 and Sec Ber Owi		cially I 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 09/03/						/ <mark>20</mark> 13						20,00	0 A		\$1.0	02(1)		0,000	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. Conversi or Exerci Price of Derivativ Security	rsion rcise f rive	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,		ransaction Code (Instr.		of		6. Date Exercisable a Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instrand 4)			vative urity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	t (D) lirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	or Nur of	ount nber ıres							

## **Explanation of Responses:**

1. The price reported in column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$1.01 to \$1.03, 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 purchased at each separate price within the ranges set forth in footnote 1.

/s/ Sean F. Moran

09/04/2013

\*\* 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.