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

**OMB APPROVAL** OMB Number: Estimated average burden hours per response: 0.5

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*  DiPietro Kenneth						2. Issuer Name <b>and</b> Ticker or Trading Symbol  INVIVO THERAPEUTICS HOLDINGS								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director 10% Owner					
(Last)	(Fi	rst)	(Middle)			CORP. [ NVIV ]								X	Officer (give title below)			Other (s below)	·
C/O INVIVO THERAPEUTICS HOLDINGS CORP. ONE KENDALL SQUARE, SUITE B14402					01/	Date of Earliest Transaction (Month/Day/Year)     01/18/2017      4. If Amendment, Date of Original Filed (Month/Day/Year)									ا ما اما اما	aint/Craun	Filing	(Chaola An	licable
(Street) CAMBRIDGE MA 02139					_   4. 1	T AME	enament, L	Jate (	or Originai F	ilea	(Montn/Da	ay/Year)		ne) X	Form fi	led by One	Repo	(Check Apporting Person One Repor	1
(City) (State) (Zip)														1 013011					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Da						ear)	2A. Deemed Execution Date, if any (Month/Day/Year		Code (In	Transaction Disposed Code (Instr. 5)		ties Acquired (A) od Of (D) (Instr. 3, 4				s Illy ollowing	Form	: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	V	Amount	ount (A) or (D)		:	Transact (Instr. 3 a	action(s)			msu. 4)
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. Deemee Execution I if any (Month/Day	Date,	4. Transa Code (I 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisal Expiration Date (Month/Day/Year			of Securities		Derivative Security		9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Ownersh Form: y Direct (D) or Indirec (I) (Instr.	Ownership	Beneficial Ownership t (Instr. 4)
					Code	V	(A)	(D)	Date Exercisable		xpiration ate	Title	Amoun or Numbe of Shares	r					
Stock Option (Right to Buy)	\$4.35	01/18/2017			A		12,500		(1)	0	1/18/2027	Common Stock	12,500	0	\$0	12,500	)	D	

## **Explanation of Responses:**

1. Option vests in 12 equal monthly installments on each monthly anniversary of the date of grant until fully vested on the first anniversary of the date of grant.

/s/ Bradley A. Jacobson, as attorney-in-fact

01/23/2017

\*\* 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.