FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
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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

1. Name and Address of Reporting Person* <u>Toselli Richard M.</u>					2. Issuer Name and Ticker or Trading Symbol INVIVO THERAPEUTICS HOLDINGS CORP. [NVIV]										Check all a Di	ship of Reporti applicable) rector ficer (give title	ctor 10% C			
(Last) (First) (Middle) C/O INVIVO THERAPEUTICS HOLDINGS CORP.					3. Date of Earliest Transaction (Month/Day/Year) 05/20/2019										below) See Remarks					
ONE KENDALL SQUARE, SUITE B14402 (Street) CAMBRIDGE MA 02139 (City) (State) (Zip)					4. If Ar	4. If Amendment, Date of Original Filed (Month/Day/Year)									i. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	e I - Nor	n-Deriv	ative S	ecu	ırities	Acq	uired,	Disp	osed o	f, oı	Ben	eficia	ally Ow	ned				
1. Title of Security (Instr. 3) 2. Trans: Date (Month/L			action Day/Year)	Execution Date,				ties Acquired (A) or d Of (D) (Instr. 3, 4 and		nd Sec Ber Ow	5. Amount of Securities Beneficially Owned Following Reported		Ownership m: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)						
							Code	v	Amount		(A) or (D)	Price	Tra	ansaction(s) estr. 3 and 4)			(mour 4)			
Common Stock ⁽¹⁾ 05/20				05/20	/2019	2019		F		78		D	\$ <mark>1</mark>	.1	10,615		D			
Common Stock															5,228 ⁽²⁾		I	By 401(k) Plan		
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		3A. Deeme Execution if any (Month/Da	Date,	4. Transacti Code (Ins 8)		5. Num of Derivat Securit Acquire (A) or Dispos of (D) (Instr. 3 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		str. 3	8. Price of Derivative Security (Instr. 5)		,	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code V		(A) (Date Exercisab		Expiration Date	Title	or Nur of	ount nber res						

Explanation of Responses:

- 1. Represents shares sold by the reporting person pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on November 20, 2018 to satisfy tax withholding obligations applicable to the vesting of 250 stock-settled RSUs.
- 2. Between January 1, 2018 and May 22, 2019, the reporting person acquired 5,228 shares of NVIV common stock under the NVIV 401(k) plan. The information in this report is based on a plan statement dated as of May 22, 2019.

Remarks:

President and Chief Executive Officer

/s/ Heather Hamel, Attorney-05/22/2019 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.