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	

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

1. Name and Address of Reporting Person* MCCARTHY JOHN A JR						2. Issuer Name and Ticker or Trading Symbol INVIVO THERAPEUTICS HOLDINGS CORP. [NVIV]								able)	g Pers	on(s) to Issu 10% Ow	ner
(Last) (First) (Middle) C/O INVIVO THERAPEUTICS HOLDINGS CORP. ONE KENDALL SQUARE, SUITE B14402					3. Date of Earliest Transaction (Month/Day/Year) 12/12/2013								below)	(give title		Other (s below)	
		02139 (Zip)		4. If Amendment, Date of Original Filed (Month/Day/Year)							Line)	Form fi	Joint/Group Filing (Check Applicable filed by One Reporting Person filed by More than One Reporting in				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Date,			Transaction Disposed Code (Instr. 5)			ties Acquired (A) or d Of (D) (Instr. 3, 4 a		5. Amour Securitie Beneficia Owned F	s ally ollowing	Form:	: Direct Control of the control of t	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code V	Amou	nt (A)	(A) or (D) Price		Transact (Instr. 3 a	tion(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. Deemed Execution Dat if any (Month/Day/Ye	Co	nsactio de (Insti	n of Derivat Securit Acquire (A) or Dispos of (D) (I	Derivative Securities Acquired		cisable and ate Year)	le and 7. Title and Am of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Co	de V	(A)	(D)	Date Exercisable	Expiration Date	n Title	or	ount nber ires					
Stock Option (Right to Buy)	\$1.78	12/10/2013		A	Λ	50,000		(1)	12/10/20:	3 Commo Stock	ⁿ 50,	.000	\$0	50,000		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/ Elizabeth Fraser, as Attorney 12/12/2013 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.