FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

UIVID AF	PROVAL
OMB Number:	3235-0287
Estimated averag	e burden
hours per respons	se: 0.5

hours per response:

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* REYNOLDS FRANCIS			<u>II</u>	2. Issuer Name and Ticker or Trading Symbol INVIVO THERAPEUTICS HOLDINGS CORP. [NVIV]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director X 10% Owner V Officer (give title Other (specify					
(Last) (First) (Middle) C/O INVIVO THERAPEUTICS HOLDINGS CORP. ONE BROADWAY, 14TH FLOOR			ъ і	3. Date of Earliest Transaction (Month/Day/Year) 03/05/2012							X Officer (give title Other (specify below) CEO, CFO					
(Street) CAMBR (City)		1A State)	02142 (Zip)	4.	4. If Amendment, Date of Original Filed (Month/Day/Year)					6. Lir	e) X Form fil	Form filed by More than One Reporting				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3) 2. Trans: Date (Month/L			е	action 2A. Deemed Execution Date or if any (Month/Day/Yea		Code (Instr.			Beneficia Owned Fo	Form (D) or ollowing (I) (In		n: Direct I r Indirect E estr. 4) (7. Nature of ndirect Beneficial Ownership			
								Code V	Amount	(A) o (D)	r Price	Reported Transacti (Instr. 3 a	on(s)			nstr. 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		se (Month/Day/Year) if any (Month/Day		rate, Transaction Code (Instr.		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)		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		(Instr. 4)			
Stock Option (Right to Buy)	\$2.68	03/05/2012		A		590,000		(1)	03/05/2022	Common Stock	590,000	\$0	590,00	0	D	

Explanation of Responses:

 $1.\ Option\ vests\ in\ equal\ monthly\ installments\ over\ a\ four-year\ period\ beginning\ on\ January\ 1,\ 2012.$

/S/ ELIZABETH FRASER, AS 03/06/2012 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.