

KIMBERLIN KEVIN  
Form SC 13G  
November 05, 2010

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934  
(Amendment No. )\*

INVIVO THERAPEUTICS HOLDINGS CORP.  
(Name of Issuer)

Common Stock  
(Title of Class of Securities)

46186M 100  
(CUSIP Number)

October 26, 2010  
(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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SCHEDULE 13G  
(Amendment No. )

CUSIP NO. 46186M 100

1 NAME OF REPORTING PERSON  
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Kevin B. Kimberlin

2 CHECK THE APPROPRIATE BOX IF MEMBER OF A GROUP

(a)  
(b) X\*

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

USA

	5	SOLE VOTING POWER
NUMBER OF		0
SHARES		
BENEFICIALLY	6	SHARED VOTING POWER
OWNED BY		
EACH		6,192,959
REPORTING	7	SOLE DISPOSITIVE POWER
PERSON		
WITH		0
	8	SHARED DISPOSITIVE POWER
		6,192,959

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

6,192,959\*\*

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.6%\*\*\*

12 TYPE OF REPORTING PERSON

IN

\* The reporting person expressly disclaims (i) the existence of any group and (ii) beneficial ownership with respect to any shares other than the shares owned of record by such reporting person and as set forth below.

\*\* This amount consists of: (i) 1,947,321 shares of the Company's common stock, \$.00001 par value per share (the "Common Stock") held by Optical Partners, LLC and (ii) warrants to purchase 4,245,638 shares of Common Stock held by Spencer Trask Ventures, Inc. Mr. Kimberlin has voting and investment control of the securities held by Optical Partners, LLC and Spencer Trask Ventures, Inc. Mr. Kimberlin disclaims beneficial ownership of these securities except as relates to this pecuniary interest in such securities.

\*\*\* Based on 49,161,268 shares of the Company's Common Stock outstanding as of November 1, 2010, as reported by the Company.



SCHEDULE 13G  
(Amendment No. )

Item 1(a). Name of Issuer:

InVivo Therapeutics Holdings Corp.

Item 1(b). Address of Issuer's Principal Executive Offices:

One Broadway, 14th Floor, Cambridge, MA 02142

Item 2(a) and (b). Name of Person Filing and Address of Principal Business or Office or, if none, Residence:

Kevin B. Kimberlin  
c/o Spencer Trask Ventures, Inc.  
535 Madison Avenue, 12th Floor  
New York, NY 10022

Item 2(c). Citizenship:

United States

Item 2(d). Title of Class of Securities:

Common Stock

Item 2(e). CUSIP Number:

46186M 100

Item 3. If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:

- (a)  Broker or Dealer registered under Section 15 of the Act.
  - (b)  Bank as defined in Section 3(a)(6) of the Act.
  - (c)  Insurance Company as defined in Section 3(a)(19) of the Act.
  - (d)  Investment company registered under Section 8 of the Investment Company Act of 1940.
  - (e)  An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
  - (f)  An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
  - (g)  A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);
  - (h)  A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
  - (i)  A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940
  - (j)  Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
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Item 4. Ownership:

(a) Amount beneficially owned:

6,192,959

(b) Percent of class:

11.6%

(c) Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote:

6,192,959

(ii) Shared power to vote or to direct the vote:

-0-

(iii) Sole power to dispose or to direct the disposition of:

6,192,959

(iv) Shared power to dispose or to direct the disposition of:

-0-

Item 5. Ownership of Five Percent or Less of a Class:

Not Applicable.

Item 6. Ownership of More Than Five Percent on Behalf of Another Person:

Not Applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person:

Not Applicable

Item 8. Identification and Classification of Members of the Group:

Not Applicable

Item 9. Notice of Dissolution of Group:

Not Applicable

Item 10.

Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: November 5, 2010

/S/ KEVIN KIMBERLIN  
Kevin Kimberlin

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