INVIVO THERAPEUTICS HOLDINGS CORP.

Form S-3 June 09, 2016 Table of Contents

As filed with the Securities and Exchange Commission on June 9, 2016.

Registration Statement No. 333-

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM S-3

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

INVIVO THERAPEUTICS HOLDINGS CORP.

(Exact name of registrant as specified in its charter)

Nevada

(State or other jurisdiction of incorporation or organization)

36-4528166

(I.R.S. Employer Identification No.)

One Kendall Square, Suite B14402

Cambridge, Massachusetts 02139

(617) 863-5500

(Address, including zip code, and telephone number, including

area code, of registrant s principal executive offices)

Steven F. McAllister

Chief Financial Officer

InVivo Therapeutics Holdings Corp.

One Kendall Square, Suite B14402

Cambridge, Massachusetts 02139

(617) 863-5500

(Name, address, including zip code, and telephone number, including area code, of agent for service)

With copies to:

Bradley A. Jacobson, Esq.

Greenberg Traurig, LLP

One International Place

Boston, Massachusetts 02110

Telephone: (617) 310-6205

Telecopy: (617) 279-8402

Approximate date of commencement of proposed sale to public: From time to time after this Registration Statement becomes effective.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box. o

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box. x

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

	Form is a post-effective amendment filed pursuant to Rul ent number of the earlier effective registration statement to		ties Act, check the follo	wing box and list the Secu	urities Act registration
	Form is a registration statement pursuant to General Instrission pursuant to Rule 462(e) under the Securities Act, c	-		that shall become effective	ve upon filing with the
	Form is a post-effective amendment to a registration state of securities pursuant to Rule 413(b) under the Securities			led to register additional s	ecurities or additional
	e by check mark whether the registrant is a large acceleration of large accelerated filer, accelerated filer and	ated filer, an accelerated fi smaller reporting compan			company. See
	accelerated filer o celerated filer o (Do not check if a smaller reporting con	npany)		Accelerated filer x Smaller reporting compa	any o
	CALC	CULATION OF REGIS	Proposed	Proposed	
Title o	f Each Class of Securities to be Registered	Amount to be Registered (1)	Maximum Offering Price Per Unit	Maximum Aggregate Offering Price	Amount of Registration Fee (2)
have ar registe: warran indeter	There are being registered under this registration states to purchase common stock and/or units; and such indefin aggregate initial offering price not to exceed \$150,000,000,000 tred hereunder. The securities registered hereunder also it its. In addition, pursuant to Rule 416 under the Securities minate number of shares of common stock as may be issueds, or similar transactions.	terminate number of units 000. Any securities regist nelude such indeterminates Act of 1933, as amended	as may be sold by the r tered hereunder may be number of shares of co I (the Securities Act),	egistrant from time to tim sold separately or as units mmon stock as may be iss the shares being registere	e, which together shall with other securities suable upon exercise of ed hereunder include such
(2)	Calculated pursuant to Rule 457(o) under the Securitie	es Act.			
(3)	Not specified as to each class of securities to be registed	ered pursuant to General I	instruction II.D. of Form	S-3.	
(4)					
	Each unit will represent an interest in common stock a	and warrants, which may o	or may not be separable	from one another.	

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the registration statement shall become effective on such date as the Commission acting pursuant to said Section 8(a), may determine.

Table of Contents
The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an off to buy these securities in any state where the offer or sale is not permitted.
Subject to completion, dated June 9, 2016
PROSPECTUS
INVIVO THERAPEUTICS HOLDINGS CORP.
\$150,000,000
Common Stock
Warrants Units

This prospectus relates to common stock, warrants and units that we may sell from time to time in one or more offerings up to a total dollar amount of \$150,000,000 on terms to be determined at the time of sale. We will provide specific terms of these securities in supplements to this prospectus. You should read this prospectus and any supplement carefully before you invest. This prospectus may not be used to offer and sell securities unless accompanied by a prospectus supplement for those securities.

Our common stock is traded on The NASDAQ Global Market under the symbol NVIV. The last reported sale price of our common stock on June 6, 2016 was \$6.93 per share.

These securities may be sold directly by us, through dealers or agents designated combination of these methods. See Plan of Distribution in this prospectus. W offering of these securities in any applicable prospectus supplement. If any agents securities in respect of which this prospectus is being delivered, we will disclose prospectus supplement. The net proceeds we expect to receive from any such sale	e may also describe the plan of distribution for any particular s, underwriters or dealers are involved in the sale of any their names and the nature of our arrangements with them in a
Investing in our securities involves a high degree of risk. Begin that you should consider before investing in our securities.	nning on page 2, we discuss several Risk Factors
Neither the Securities and Exchange Commission nor any state securities condetermined if this prospectus is truthful or complete. Any representation to	
The date of this prospectus is	s , 2016.

Table of Contents

TABLE OF CONTENTS

	Page
About this Prospectus	į
About InVivo Therapeutics Holdings Corp.	1
Risk Factors	2
Where You Can Find More Information	2
Special Note Regarding Forward-Looking Information	2
Incorporation of Certain Information By Reference	3
Use of Proceeds	5
The Securities We May Offer	6
Description of Common Stock	7
Description of Warrants	8
Description of Units	9
Certain Anti-Takeover and Indemnification Provisions of our Articles of Incorporation and Bylaws and Nevada Law	10
Plan of Distribution	12
Experts	15
Legal Matters	15

ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or the SEC, using a shelf registration process. Under this shelf registration process, we may sell any combination of the securities described in this prospectus in one or more offerings up to a total dollar amount of \$150,000,000. This prospectus provides you with a general description of the securities we may offer. Each time we sell securities, we will provide a prospectus supplement that will contain specific information about the securities being offered and the terms of that offering. The prospectus supplement may also add to, update or change information contained in this prospectus. You should read both this prospectus and any prospectus supplement together with the additional information described under the heading Where You Can Find More Information carefully before making an investment decision.

You should rely only on the information contained or incorporated by reference in this prospectus or any applicable prospectus supplement. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. We are not making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted.

You should not assume that the information appearing in this prospectus or any applicable prospectus supplement is accurate as of any date other than the date on the front cover of this prospectus or the applicable prospectus supplement, or that the information contained in any document incorporated by reference is accurate as of any date other than the date of the document incorporated by reference, regardless of the time of delivery of this prospectus or any prospectus supplement or any sale of a security. Our business, financial condition, results of operations and prospects may have changed since such dates.

Unless the context otherwise requires, the terms InVivo, the Company, our company, we, us, our and similar names refer collectively to Interapeutics Holdings Corp. and its subsidiaries.

Table of Contents

ABOUT INVIVO THERAPEUTICS HOLDINGS CORP.

We are a research and clinical-stage biomaterials and biotechnology company with a focus on treatment of spinal cord injuries (SCI). Our mission is to redefine the life of the SCI patient, and we are developing treatment options intended to provide meaningful improvement in patient outcomes following SCI. Our approach to treating acute SCIs is based on our investigational *Neuro-Spinal Scaffold* implant, an investigational bioresorbable polymer scaffold that is designed for implantation at the site of injury within a spinal cord contusion and is intended to treat acute spinal cord injury. We believe the *Neuro-Spinal Scaffold* implant is the only SCI therapy in development focused solely on treating acute SCI directly at the epicenter of the injury. The *Neuro-Spinal Scaffold* implant incorporates intellectual property licensed under an exclusive, world-wide license from Boston Children's Hospital and the Massachusetts Institute of Technology. We are continually evaluating other technologies and therapeutics that may be complementary to our development of the *Neuro-Spinal Scaffold* implant or offer the potential to bring us closer to our goal of redefining the life of the SCI patient.

We currently have a clinical development program for acute SCI and a pre-clinical development program for chronic SCI.

Our leading product under development is our *Neuro-Spinal Scaffold* implant, an investigational bioresorbable polymer scaffold that is designed for implantation at the site of injury within a spinal cord contusion. The *Neuro-Spinal Scaffold* implant is intended to provide support to the surrounding tissue after injury, minimizing expansion areas of necrosis, and supporting endogenous healing/repair processes following injury. We expect the *Neuro-Spinal Scaffold* will be regulated by the FDA as a Class III medical device.

We are also developing our Bioengineered Neural Trails injection program for the treatment of chronic spinal cord injury. Bioengineered Neural Trails are injectable combinations of biomaterials and neural stem cells delivered using minimally-invasive surgical instrumentation and techniques to create trails across the chronic injury site. We expect that our Bioengineered Neural Trails injection investigational product will be regulated by the FDA as a combination product.

We were incorporated on April 2, 2003, under the name of Design Source, Inc. On October 26, 2010, we acquired the business of InVivo Therapeutics Corporation, which was founded in 2005, and are continuing the existing business operations of InVivo Therapeutics Corporation as our wholly-owned subsidiary.

Our principal executive offices are located in leased premises at One Kendall Square, Building 1400 East, 4th Floor, Cambridge, Massachusetts 02139. Our telephone number is (617) 863-5500. We maintain a website at www.invivotherapeutics.com. Information contained on, or accessible through, our website is not a part of, and is not incorporated by reference into, this prospectus supplement or the accompanying prospectus.

Table of Contents

RISK FACTORS

Investing in our securities involves significant risks. Please see the risk factors under the heading Risk Factors in our most recent Annual Report on Form 10-K, as revised or supplemented by our Quarterly Reports on Form 10-Q filed with the SEC since the filing of our most recent Annual Report on Form 10-K, each of which are on file with the SEC and are incorporated by reference in this prospectus. Before making an investment decision, you should carefully consider these risks as well as other information we include or incorporate by reference in this prospectus and any prospectus supplement. The risks and uncertainties we have described are not the only ones facing our company. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our business operations.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy any document we file with the SEC at the SEC s Public Reference Room at 100 F Street, N.E., Washington, DC 20549. Please call 1-800-SEC-0330 for more information on the operation of the Public Reference Room. Our SEC filings are also available to you on the SEC s Internet site at www.sec.gov.

This prospectus is part of a registration statement that we filed with the SEC. This prospectus does not contain all of the information included in the registration statement, including certain exhibits and schedules. You can obtain a copy of the registration statement and exhibits from the SEC at the address listed above or from the SEC s Internet site.

Our website is www.invivotherapeutics.com. The information on our website is not incorporated by reference in this prospectus or any prospectus supplement.

SPECIAL NOTE REGARDING FORWARD-LOOKING INFORMATION

This prospectus, including the information incorporated by reference into this prospectus, contains, and any prospectus supplement may contain, forward-looking statements—within the meaning of Section 27A of the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended (the Exchange Act). These statements relate to future events or to our future operating or financial performance and involve known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements to be materially different from any future results, performances or achievements expressed or implied by the forward-looking statements. Forward-looking statements may include, but are not limited to, statements about:

• our limited operating history and history of net losses;

- our ability to raise substantial additional capital to finance our planned operations and to continue as a going concern;
- our ability to successfully commercialize our current and future product candidates, including our *Neuro-Spinal Scaffold*;
- our ability to successfully complete clinical trials and obtain and maintain regulatory approval of our product candidates;
- our ability to protect and maintain our intellectual property and licensing arrangements;

Table of Contents

- market acceptance of our technology and products;
- our ability to promote, manufacture and sell our products, either directly or through collaborative and other arrangements with third parties; and
- our ability to attract and retain key personnel.

In some cases, you can identify forward-looking statements by terms such as may, might, will, should, intends, expects, plans, goals, anticipates, believes, estimates, predicts, potential or continue and similar expressions intended to identify forward-looking statements. The statements reflect our current views with respect to future events and are based on assumptions and subject to risks and uncertainties. Given these uncertainties, you should not place undue reliance on these forward-looking statements.

You should read these risks and other cautionary statements made in this prospectus, and in the documents we incorporate by reference as being applicable to all related forward-looking statements wherever they appear in the prospectus, and in the documents incorporated by reference. We do not assume any obligation to update any forward-looking statements made by us.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to incorporate into this prospectus the information contained in other documents and reports that we file with the SEC. This means that we can disclose important information to you by referring to other documents that contain that information. Any information that we incorporate by reference is considered part of this prospectus. The documents and reports that we list below are incorporated by reference into this prospectus, other than any portion of any such documents that are not deemed filed under the Exchange Act in accordance with the Exchange Act and applicable SEC rules.

In addition, all documents and reports which we file pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act after the date of the initial registration statement and prior to the effectiveness of the registration statement and after the date of this prospectus and prior to the termination of each offering under this prospectus shall be deemed to be incorporated in this prospectus by reference and to be a part hereof from the date of filing of such documents and reports.

We have filed the following documents with the SEC. These documents are incorporated herein by reference as of their respective dates of filing:

(1) Our Annual Report on Form 10-K for the fiscal year ended December 31, 2015, filed on March 4, 2016;

(2)	Our Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2016, filed on May 6, 2016;
(3)	Our Current Reports on Form 8-K filed on March 14, March 15, April 1, April 12, May 27 and June 8, 2016;
(4)	Our Definitive Proxy Statement on Schedule 14(a) filed on April 22, 2016; and
(5)	The description of our common stock contained in our Registration Statement on Form 8-A filed on April 15,

2015, including any amendments or reports filed for the purpose of updating such description.

Table of Contents

The documents incorporated by reference in this prospectus are available from us upon request. We will provide a copy of any and all of the information that is incorporated by reference in this prospectus to any person, without charge, upon written or oral request. Exhibits to SEC filings will not be sent, however, unless those exhibits have specifically been incorporated by reference in this prospectus. Requests for such copies should be directed to the following:

InVivo Therapeutics Holdings Corp.

One Kendall Square, Suite B14402

Cambridge, Massachusetts 02139

Attn: Investor Relations

Telephone: (617) 863-5500

Statements contained in documents that we file with the SEC and that are incorporated by reference in this prospectus will automatically update and supersede information contained in this prospectus, including information in previously filed documents or reports that have been incorporated by reference in this prospectus, to the extent the new information differs from or is inconsistent with the old information. Any statement so modified or superseded will not be deemed to be a part of this prospectus, except as so modified or superseded. Because information that we later file with the SEC will update and supersede previously incorporated information, you should look at all of the SEC filings that we incorporate by reference to determine if any of the statements in this prospectus or in any documents previously incorporated by reference have been modified or superseded.

Table of Contents

USE OF PROCEEDS

We current following:	tly intend to use the estimated net proceeds from the sale of these securities for general corporate purposes, which may include the
•	the research, development and pre-clinical and clinical trials for our products;
•	the acquisition of other companies, businesses, products or technologies;
•	the repayment and refinancing of debt;
•	capital expenditures;
•	working capital; and
•	any other purpose that we may specify in any prospectus supplement.
will have s above, we	ot yet determined the amount of net proceeds to be used specifically for any of the foregoing purposes. Accordingly, our management ignificant discretion and flexibility in applying the net proceeds from the sale of these securities. Pending any use, as described intend to invest the net proceeds in high-quality, short-term, interest-bearing securities. Our plans to use the estimated net proceeds ale of these securities may change, and if they do, we will update this information in a prospectus supplement.

5

Table of Contents

THE SECURITIES WE MAY OFFER

The descriptions of the securities contained in this prospectus, together with the applicable prospectus supplements, summarize the material terms and provisions of the various types of securities that we may offer. We will describe in the applicable prospectus supplement relating to any securities the particular terms of the securities offered by that prospectus supplement. If we so indicate in the applicable prospectus supplement, the terms of the securities may differ from the terms we have summarized below. We will also include in the prospectus supplement information, where applicable, about material United States federal income tax considerations relating to the securities, and the securities exchange, if any, on which the securities will be listed.

supplement information, where applicable, about material United States federal income tax considerations relating to the securities, and the securities exchange, if any, on which the securities will be listed.
We may sell from time to time, in one or more offerings:
• common stock;
warrants to purchase common stock or units;
units comprised of common stock and warrants; or
any combination of the foregoing securities.
In this prospectus, we refer to the common stock, warrants and units collectively as securities. The total dollar amount of all securities that w may issue will not exceed \$150,000,000.
This prospectus may not be used to consummate a sale of securities unless it is accompanied by a prospectus supplement.

6

Table of Contents

DESCRIPTION OF COMMON STOCK

The following is a description of our common stock. It may not contain all the information that is important to you. You can access complete information by referring to our articles of incorporation and bylaws.

Under our articles of incorporation, we have authority to issue 100,000,000 shares of common stock, par value \$0.00001 per share. As of March 31, 2016, there were 31,905,834 shares of common stock issued and outstanding. All shares of common stock will, when issued, be duly authorized, fully paid and nonassessable. Accordingly, the full price for the outstanding shares of common stock will have been paid at issuance and any holder of our common stock will not be later required to pay us any additional money for such common stock.

In addition, as of March 31, 2016:

- there were outstanding warrants to purchase an aggregate of up to 3,495,679 shares of our common stock at a weighted average exercise price of \$8.03 per share;
- there were an aggregate of 3,055,578 shares of our common stock subject to outstanding stock options at a weighted average exercise price of \$7.43 per share;
- there were 3,514,753 shares of our common stock reserved for future issuances under our incentive compensation plans and 401(k) plan; and
- there were 230,552 shares of common stock reserved for future sale under our employee stock purchase plan.

The holders of common stock are entitled to one vote per share on all matters submitted to a vote of the stockholders, including the election of directors. Generally, all matters to be voted on by stockholders must be approved by a majority (or, in the case of election of directors, by a plurality) of the votes entitled to be cast by all shares of common stock that are present in person or represented by proxy. Except as otherwise provided by law, amendments to our articles of incorporation generally must be approved by a majority of the votes entitled to be cast by all outstanding shares of common stock. Our articles of incorporation do not provide for cumulative voting in the election of directors. The holders of common stock will be entitled to such cash dividends as may be declared from time to time by the board of directors from funds available. The holders of common stock have no preferential or preemptive right and no subscription, redemption or conversion privileges with respect to the issuance of additional shares of our common stock. Upon liquidation, dissolution or winding up of the company, the holders of common stock will be entitled to receive pro rata all assets available for distribution to such holders after payment of our liabilities.

Registrar and Transfer Agent

The registrar and transfer agent for our common stock is Continental Stock Transfer & Trust Company.

Trading Market

Our common stock is traded on The NASDAQ Global Market under the symbol NVIV.

Table of Contents

DESCRIPTION OF WARRANTS

We may issue warrants for the purchase of common stock or units. Warrants may be issued independently or together with common stock or units, and the warrants may be attached to or separate from such securities. We may issue warrants directly or under a warrant agreement to be entered into between us and a warrant agent. We will name any warrant agent in the applicable prospectus supplement. Any warrant agent will act solely as our agent in connection with the warrants of a particular series and will not assume any obligation or relationship of agency or trust for or with any holders or beneficial owners of warrants.

The following is a description of the general terms and provisions of any warrants we may issue and may not contain all the information that is important to you. You can access complete information by referring to the applicable prospectus supplement. In the applicable prospectus supplement, we will describe the terms of the warrants and any applicable warrant agreement, including, where applicable, the following:

- the title of the warrants:
- the offering price and aggregate number of warrants offered;
- the designation and terms of the securities with which the warrants are issued and the number of warrants issued with each such security;
- the date on and after which the warrants and the related securities will be separately transferable;
- any information with respect to book-entry procedures;
- in the case of warrants to purchase common stock or units, the number of shares of common stock or units, as the case may be, purchasable upon the exercise of one warrant and the price at which these securities may be purchased upon such exercise;
- the effect of any merger, consolidation, sale or other disposition of our business on the warrant agreement and the warrants;

the terms of any rights to redeem or call the warrants;
any provisions for changes to or adjustments in the exercise price or number of securities issuable upon exercise of the warrants;
the dates on which the right to exercise the warrants will commence and expire;
the manner in which the warrant agreement and warrants may be modified;
a discussion of any material U.S. federal income tax considerations of holding or exercising the warrants;
the terms of the securities issuable upon exercise of the warrants; and
any other specific terms, preferences, rights or limitations of or restrictions on the warrants.

Table of Contents

DESCRIPTION OF UNITS

The following description, together with the additional information we include in any applicable prospectus supplement, summarizes the material terms and provisions of the units that we may offer under this prospectus. Units may be offered independently or together with common stock and warrants offered by any prospectus supplement, and may be attached to or separate from those securities.

While the terms we have summarized below will generally apply to any future units that we may offer under this prospectus, we will describe the particular terms of any series of units that we may offer in more detail in the applicable prospectus supplement. The terms of any units offered under a prospectus supplement may differ from the terms described below.

We will incorporate by reference into the registration statement of which this prospectus is a part the form of unit agreement, including a form of unit certificate, if any, that describes the terms of the series of units we are offering before the issuance of the related series of units. The following summaries of material provisions of the units and the unit agreements are subject to, and qualified in their entirety by reference to, all the provisions of the unit agreement applicable to a particular series of units. We urge you to read the applicable prospectus supplements related to the units that we sell under this prospectus, as well as the complete unit agreements that contain the terms of the units.

General

We may issue units consisting of common stock and warrants. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time, or at any time before a specified date.

We will describe in the applicable prospectus supplement the terms of the series of units, including the following:

- the designation and terms of the units and of the securities comprising the units, including whether and under what circumstances those securities may be held or transferred separately;
- any provisions of the governing unit agreement that differ from those described below; and
- any provisions for the issuance, payment, settlement, transfer, or exchange of the units or of the securities comprising the units.

The provisions described in this section, as well as those described under Description of Common Stock, and Description of Warrants, will apply to each unit and to the common stock and warrants included in each unit, respectively.

Issuance in Series

We may issue units in such amounts and in such numerous distinct series as we determine.

Table of Contents

CERTAIN ANTI-TAKEOVER AND INDEMNIFICATION PROVISIONS OF

OUR ARTICLES OF INCORPORATION AND BY-LAWS AND NEVADA LAW

Anti-Takeover Effects of Provisions of Nevada State Law

We may be or in the future we may become subject to Nevada s control share laws. A corporation is subject to Nevada s control share law if it has more than 200 stockholders, at least 100 of whom are stockholders of record and residents of Nevada, and if the corporation does business in Nevada, including through an affiliated corporation. This control share law may have the effect of discouraging corporate takeovers. We currently have less than 100 stockholders of record who are residents of Nevada.

The control share law focuses on the acquisition of a controlling interest, which means the ownership of outstanding voting shares that would be sufficient, but for the operation of the control share law, to enable the acquiring person to exercise the following proportions of the voting power of the corporation in the election of directors: (1) one-fifth or more but less than one-third; (2) one-third or more but less than a majority; or (3) a majority or more. The ability to exercise this voting power may be direct or indirect, as well as individual or in association with others.

The effect of the control share law is that an acquiring person, and those acting in association with that person, will obtain only such voting rights in the control shares as are conferred by a resolution of the stockholders of the corporation, approved at a special or annual meeting of stockholders. The control share law contemplates that voting rights will be considered only once by the other stockholders. Thus, there is no authority to take away voting rights from the control shares of an acquiring person once those rights have been approved. If the stockholders do not grant voting rights to the control shares acquired by an acquiring person, those shares do not become permanent non-voting shares. The acquiring person is free to sell the shares to others. If the buyer or buyers of those shares themselves do not acquire a controlling interest, the shares are not governed by the control share law.

If control shares are accorded full voting rights and the acquiring person has acquired control shares with a majority or more of the voting power, a stockholder of record, other than the acquiring person, who did not vote in favor of approval of voting rights, is entitled to demand fair value for such stockholder s shares.

In addition to the control share law, Nevada has a business combination law, which prohibits certain business combinations between Nevada corporations and interested stockholders for three years after the interested stockholder first becomes an interested stockholder, unless the corporation s board of directors approves the combination in advance. For purposes of Nevada law, an interested stockholder is any person who is: (a) the beneficial owner, directly or indirectly, of 10% or more of the voting power of the outstanding voting shares of the corporation, or (b) an affiliate or associate of the corporation and at any time within the previous three years was the beneficial owner, directly or indirectly, of 10% or more of the voting power of the then-outstanding shares of the corporation. The definition of business combination contained in the statute is sufficiently broad to cover virtually any kind of transaction that would allow a potential acquirer to use the corporation s assets to finance the acquisition or otherwise to benefit its own interests rather than the interests of the corporation and its other stockholders.

The effect of Nevada s business combination law is to potentially discourage parties interested in taking control of the Company from doing so if they cannot obtain the approval of our board of directors.

Table of Contents

Anti-Takeover Effects of Provisions of Our Articles of Incorporation and Bylaws

Our articles of incorporation provide for a classified board of directors. This provision could prevent a party who acquires control of a majority of our outstanding common stock from obtaining control of our board until our second annual stockholders meeting following the date the acquirer obtains the controlling stock interest. The classified board provision could have the effect of discouraging a potential acquirer from making a tender offer or otherwise attempting to obtain control of us and could increase the likelihood that incumbent directors will retain their positions. In addition, under our bylaws, directors may be removed only for cause and only by the affirmative vote of the holders of at least 80% of the voting power of our then outstanding shares of capital stock entitled to vote generally in the election of directors, voting together as a single class.

Our bylaws also provide that stockholders may only act at meetings of stockholders and not by written consent in lieu of a stockholders meeting. Our bylaws provide that stockholders may not call a special meeting of stockholders. Rather, only the Chairman of our board of directors, the President or the board of directors pursuant to a resolution approved by a majority of the entire board of directors are able to call special meetings of stockholders. Our bylaws also provide that stockholders may only conduct business at special meetings of stockholders that was specified in the notice of the meeting. These provisions may discourage another person or entity from making a tender offer, even if it acquired a majority of our outstanding voting stock, because the person or entity could only take action at a duly called stockholders meeting relating to the business specified in the notice of meeting and not by written consent.

Indemnification of Directors and Officers

Nevada Revised Statutes (NRS) Sections 78.7502 and 78.751 provide us with the power to indemnify any of our directors, officers, employees and agents. The person entitled to indemnification must have conducted himself in good faith, and must reasonably believe that his conduct was in, or not opposed to, our best interests. In a criminal action, the director, officer, employee or agent must not have had reasonable cause to believe that his conduct was unlawful.

Under NRS Section 78.751, advances for expenses may be made by agreement if the director or officer affirms in writing to repay the expenses if it is determined that such officer or director is not entitled to be indemnified.

Our bylaws include an indemnification provision under which we have the power to indemnify our directors, officers, former directors and officers, employees and other agents (including heirs and personal representatives) against all costs, charges and expenses actually and reasonably incurred, including an amount paid to settle an action or satisfy a judgment to which a director or officer is made a party by reason of being or having been a director or officer of the Company. Our bylaws further provide for the advancement of all expenses incurred in connection with a proceeding upon receipt of an undertaking by or on behalf of such person to repay such amounts unless it is determined that the party is entitled to be indemnified under our bylaws. No advance will be made by the Company to a party if it is determined that the party acted in bad faith. These indemnification rights are contractual, and as such will continue as to a person who has ceased to be a director, officer, employee or other agent, and will inure to the benefit of the heirs, executors and administrators of such a person. Our bylaws do not eliminate or limit the liability of a director for: (i) an act or omission which involves intentional misconduct, fraud or a knowing violation of law; or (ii) the payment of dividends in violation of NRS 78.300. These provisions may be sufficiently broad to indemnify such persons for liabilities arising under the Securities Act, in which case such provision is against public policy as expressed in the Securities Act and is therefore unenforceable.

Table of Contents

We maintain an insurance policy on behalf of our directors and officers, covering certain liabilities which may arise as a result of the actions of the directors and officers.

We have entered into an indemnification agreement with each of our officers and directors pursuant to which they will be indemnified by us, subject to certain limitations, for any liabilities incurred by them in connection with their role as officers and/or directors of the Company.

PLAN OF DISTRIBUTION

We may sell	the securities	being offered	hereby in one of	or more of the	following ways	from time to time:
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- directly to investors;
- through agents to the public or to investors;
- directly to agents;
- to one or more underwriters or dealers for resale to the public or to investors;
- in at the market offerings, within the meaning of Rule 415(a)(4) of the Securities Act, to or through a market maker or into an existing trading market, or an exchange or otherwise; or
- through a combination of any of these methods of sale.

The securities that we distribute by any of these methods may be sold, in one or more transactions, at:

• a fixed price or prices, which may be changed;

•	market prices prevailing at the time of sale;
•	prices related to prevailing market prices; or
•	negotiated prices.
We will se	et forth in a prospectus supplement the terms of the offering of our securities, including:
•	the name or names of any agents or underwriters;
•	the purchase price of our securities being offered and the proceeds we will receive from the sale;
•	any over-allotment options under which underwriters may purchase additional securities from us;
underwri	any agency fees or underwriting discounts and commissions and other items constituting agents or iters compensation;
	12

Table of Contents

- any public offering price;
- any discounts or concessions allowed or reallowed or paid to dealers; and
- any securities exchanges on which such common stock may be listed.

Underwriters

Underwriters, dealers and agents that participate in the distribution of the securities may be underwriters as defined in the Securities Act of 1933, as amended (the Securities Act) and any discounts or commissions they receive from us and any profit on their resale of the securities may be treated as underwriting discounts and commissions under the Securities Act. We will identify in the applicable prospectus supplement any underwriters, dealers or agents and will describe their compensation. We may have agreements with the underwriters, dealers and agents to indemnify them against specified civil liabilities, including liabilities under the Securities Act. Underwriters, dealers and agents may engage in transactions with or perform services for us or our subsidiaries in the ordinary course of their businesses.

If we use underwriters for a sale of securities, the underwriters will acquire the securities for their own account. The underwriters may resell the securities in one or more transactions, including negotiated transactions, at a fixed public offering price or at varying prices determined at the time of sale. The obligations of the underwriters to purchase the securities will be subject to the conditions set forth in the applicable underwriting agreement. The underwriters will be obligated to purchase all the securities offered if they purchase any of the securities offered. We may change from time to time any initial public offering price and any discounts or concessions the underwriters allow or reallow or pay to dealers. We may use underwriters with whom we have a material relationship. We will describe in the prospectus supplement naming the underwriters the nature of any such relationship.

If indicated in the applicable prospectus supplement, we will authorize underwriters or other persons acting as our agents to solicit offers by particular institutions to purchase securities from us at the public offering price set forth in such prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on the date or dates stated in such prospectus supplement. Each delayed delivery contract will be for an amount no less than, and the aggregate principal amounts of securities sold under delayed delivery contracts shall be not less nor more than, the respective amounts stated in the applicable prospectus supplement. Institutions with which such contracts, when authorized, may be made include commercial and savings banks, insurance companies, pension funds, investment companies, educational and charitable institutions and others, but will in all cases be subject to our approval. The obligations of any purchaser under any such contract will be subject to the conditions that (a) the purchase of the securities shall not at the time of delivery be prohibited under the laws of any jurisdiction in the United States to which the purchaser is subject, and (b) if the securities are being sold to underwriters, we shall have sold to the underwriters the total principal amount of the securities less the principal amount thereof covered by the contracts. The underwriters and such other agents will not have any responsibility in respect of the validity or performance of such contracts.

Agents

We may designate agents who agree to use their reasonable efforts to solicit purchases for the period of their appointment or to sell securities on a continuing basis.

Table of Contents

Direct Sales

We may also sell securities directly to one or more purchasers without using underwriters or agents. We may also make direct sales through subscription rights distributed to our shareholders on a pro rata basis, which may or may not be transferable. In any distribution of subscription rights to shareholders, if all of the underlying securities are not subscribed for, we may then sell the unsubscribed securities directly to third parties or may engage the services of one or more underwriters, dealers or agents, including standby underwriters, to sell the unsubscribed securities to third parties.

Trading Markets and Listing of Securities

Unless otherwise specified in the applicable prospectus supplement, each class or series of securities will be a new issue with no established trading market, other than our common stock, which is listed for trading on the The NASDAQ Global Market. We may elect to list any other class or series of securities on any exchange, but we are not obligated to do so. It is possible that one or more underwriters may make a market in a class or series of securities, but the underwriters will not be obligated to do so and may discontinue any market making at any time without notice. We cannot give any assurance as to the liquidity of the trading market for any of the securities.

Stabilization Activities

In connection with an offering through underwriters, an underwriter may purchase and sell securities in the open market. These transactions may include short sales, stabilizing transactions and purchases to cover positions created by short sales. Short sales involve the sale by the underwriters of a greater number of securities than they are required to purchase in the offering. Covered—short sales are sales made in an amount not greater than the underwriters—option to purchase additional securities in the offering, if any. If the underwriters have an over-allotment option to purchase additional securities, the underwriters may consider, among other things, the price of securities available for purchase in the open market as compared to the price at which they may purchase shares through the over-allotment option. Naked—short sales are any sales in excess of such option or where the underwriters do not have an over-allotment option. The underwriters must close out any naked short position by purchasing securities in the open market. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the securities in the open market after pricing that could adversely affect investors who purchase in the offering.

Accordingly, to cover these short sales positions or to otherwise stabilize or maintain the price of the securities, the underwriters may bid for or purchase securities in the open market and may impose penalty bids. If penalty bids are imposed, selling concessions allowed to syndicate members or other broker-dealers participating in the offering are reclaimed if securities previously distributed in the offering are repurchased, whether in connection with stabilization transactions or otherwise. The effect of these transactions may be to stabilize or maintain the market price of the securities at a level above that which might otherwise prevail in the open market. The impositions of a penalty bid may also effect the price of the securities to the extent that it discourages resale of the securities. The magnitude or effect of any stabilization or other transactions is uncertain.

Table of Contents

EXPERTS

The consolidated financial statements of InVivo Therapeutics Holdings Corp. and Subsidiary as of December 31, 2015 and for the year then ended and management sassessment of internal control over financial reporting as of December 31, 2015, incorporated in this Prospectus by reference from the InVivo Therapeutics Holdings Corp. and Subsidiary s Annual Report on Form 10-K for the year ended December 31, 2015, have been audited by RSM US LLP, an independent registered public accounting firm, as stated in their report thereon (which report expresses an unqualified opinion and includes an explanatory paragraph relating to the Company sability to continue as a going concern) incorporated herein by reference, and have been incorporated in reliance upon such reports and upon the authority of such firm as experts in accounting and auditing.

The consolidated balance sheet of InVivo Therapeutics Holdings Corp. as of December 31, 2014, and the related consolidated statements of operations, changes stockholders—equity (deficit) and cash flows for each of the two years in the period ended December 31, 2014, have been audited by Wolf & Company, P.C., an independent registered public accounting firm, as indicated in their report with respect thereto, and are incorporated by reference herein in reliance upon the authority of said firm as experts in accounting and auditing.

LEGAL MATTERS

Certain legal matters, including the legality of the securities offered, will be passed upon for us by our counsel, Greenberg Traurig, LLP, Boston, Massachusetts. If the securities are distributed in an underwritten offering, certain legal matters will be passed upon for the underwriters by counsel identified in the applicable prospectus supplement.

15

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INVIVO	THEKAPI	HERAPEUTICS HOLDINGS			

\$150,000,000

Common Stock

Warrants

Units

PROSPECTUS

, 2016

Table of Contents

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 14. Other Expenses of Issuance and Distribution.

The expenses payable by the registrant in connection with the issuance and distribution of the securities being registered are set forth in the following table (all amounts except the registration fee are estimated):

SEC registration fee	\$ 15,105
Legal fees and expenses	75,000
Accounting fees and expenses	5,000
Printing fees and expenses	10,000
Transfer agent fees and expenses	5,000
Miscellaneous expenses	5,000
Total	\$ 115,105

Item 15. Indemnification of Directors and Officers.

Nevada Revised Statutes (NRS) Sections 78.7502 and 78.751 provide us with the power to indemnify any of our directors, officers, employees and agents. The person entitled to indemnification must have conducted himself in good faith, and must reasonably believe that his conduct was in, or not opposed to, our best interests. In a criminal action, the director, officer, employee or agent must not have had reasonable cause to believe that his conduct was unlawful.

Under NRS Section 78.751, advances for expenses may be made by agreement if the director or officer affirms in writing to repay the expenses if it is determined that such officer or director is not entitled to be indemnified.

Our bylaws include an indemnification provision under which we have the power to indemnify our directors, officers, former directors and officers, employees and other agents (including heirs and personal representatives) against all costs, charges and expenses actually and reasonably incurred, including an amount paid to settle an action or satisfy a judgment to which a director or officer is made a party by reason of being or having been a director or officer of the company. Our bylaws further provide for the advancement of all expenses incurred in connection with a proceeding upon receipt of an undertaking by or on behalf of such person to repay such amounts unless it is determined that the party is entitled to be indemnified under our bylaws. No advance will be made by the company to a party if it is determined that the party acted in bad faith. These indemnification rights are contractual, and as such will continue as to a person who has ceased to be a director, officer, employee or other agent, and will inure to the benefit of the heirs, executors and administrators of such a person. Our bylaws do not eliminate or limit the liability of a director for: (i) an act or omission which involves intentional misconduct, fraud or a knowing violation of law; or (ii) the payment of dividends in violation of NRS 78.300. These provisions may be sufficiently broad to indemnify such persons for liabilities arising under the Securities Act in which case such provision is against public policy as expressed in the Securities Act and is therefore unenforceable.

We maintain an insurance policy on behalf of our directors and officers, covering certain liabilities which may arise as a result of the actions of the directors and officers.

II-1

Table of Contents

We have entered into an indemnifica	tion agreement with each of ou	ar officers and directors pursi	uant to which they will be	indemnified by us,
subject to certain limitations, for any	liabilities incurred by them in	connection with their role as	s officers or directors of th	e company.

Item 16. Exhibits.

The exhibits listed in the Exhibit Index immediately preceding the exhibits are filed as part of this registration statement on Form S-3.

Item 17. Undertakings.

The undersigned registrant hereby undertakes:

- (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
- (i) To include any prospectus required by Section 10(a)(3) of the Securities Act;
- tatement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in the volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20% change in the maximum aggregate offering price set forth in the Calculation of Registration Fee table in the effective registration statement; and
- (iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

provided, however, that paragraphs (1)(i), (1)(ii) and (1)(iii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the

registrant pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934, as amended (the Exchange Act), that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

- That, for the purposes of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at the time shall be deemed to be the initial *bona fide* offering thereof.
- To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

II-2

Table of Contents

(4) Th	at, for the purpose of determining liability under the Securities Act to any purchaser:
(i) If	f the Registrant is relying on Rule 430B:
	ch prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the nt as of the date the filed prospectus was deemed part of and included in the registration statement;
registration statement (x) for the purpose of part of and included effectiveness or the opposite provided in Rule 430 shall be deemed to be statement to which to initial bona fide offer that is part of the registration state contract of sale prior	ch prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a not in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or off providing the information required by section 10(a) of the Securities Act shall be deemed to be in the registration statement as of the earlier of the date such form of prospectus is first used after date of the first contract of sale of securities in the offering described in the prospectus. As DB, for liability purposes of the issuer and any person that is at that date an underwriter, such date as new effective date of the registration statement relating to the securities in the registration that prospectus relates, and the offering of such securities at that time shall be deemed to be the theorem the theorem of the registration statement or prospectus gistration statement or made in a document incorporated or deemed incorporated by reference into ment or prospectus that is part of the registration statement will, as to a purchaser with a time of a to such effective date, supersede or modify any statement that was made in the registration extus that was part of the registration statement or made in any such document immediately prior to our
registration statement prospectuses filed in of the date it is first prospectus that is pa reference into the re- with a time of contra- registration statement	the registrant is subject to Rule 430C, each prospectus filed pursuant to Rule 424(b) as part of a not relating to an offering, other than registration statements relying on Rule 430B or other than a reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as used after effectiveness. <i>Provided</i> , <i>however</i> , that no statement made in a registration statement or ret of the registration statement or made in a document incorporated or deemed incorporated by gistration statement or prospectus that is part of the registration statement will, as to a purchaser act of sale prior to such first use, supersede or modify any statement that was made in the not or prospectus that was part of the registration statement or made in any such document of such date of first use.
	at, for the purpose of determining liability of the registrant under the Securities Act to any ial distribution of the securities:

The undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, such undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

Table of Contents

(i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;
(ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
(iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
(iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.
The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the registrant s annual report pursuant to section 13(a) or 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan s annual report pursuant to Section 15(a) of the Exchange Act) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial <i>bona fide</i> offering thereof.
Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the indemnification provisions described herein, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.
п-4

Table of Contents

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Cambridge, Commonwealth of Massachusetts, on this 9th day of June, 2016.

INVIVO THERAPEUTICS HOLDINGS CORP.

By: /s/ Mark D. Perrin Mark D. Perrin

Chief Executive Officer

We, the undersigned directors of InVivo Therapeutics Holdings Corp., hereby severally constitute and appoint Mark D. Perrin our true and lawful attorney with full power to him to sign for us and in our names in the capacities indicated below the registration statement on Form S-3 filed herewith and any and all pre-effective and post-effective amendments to said registration statement and generally to do all such things in our name and behalf in our capacities as directors to enable InVivo Therapeutics Holdings Corp. to comply with the provisions of the Securities Act of 1933, as amended, and all requirements of the Securities and Exchange Commission, hereby ratifying and confirming our signatures as they may be signed by our said attorney to said registration statement and any and all amendments thereto.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
/s/ Mark D. Perrin Mark D. Perrin	Chief Executive Officer and Chairman of the Board	June 9, 2016
/s/ Steven F. McAllister Steven F. McAllister	Chief Financial Officer	June 9, 2016
/s/ Kenneth DiPietro Kenneth DiPietro	Director	June 9, 2016
/s/ Daniel R. Marshak Daniel R. Marshak	Director	June 9, 2016
/s/ C. Ann Merrifield C. Ann Merrifield	Director	June 9, 2016
/s/ Richard J. Roberts Richard J. Roberts	Director	June 9, 2016

Table of Contents

EXHIBIT INDEX

EXHIBIT
NUMBER

**1.1 Form of Underwriting Agreement.

**4.1 Form of Warrant Agreement.

**4.2 Form of Unit Agreement and Unit Certificate.

**5.1 Opinion of Greenberg Traurig, LLP.

**23.1 Consent of RSM US LLP.

**23.2 Consent of Wolf & Company, P.C.

**23.3 Consent of Greenberg Traurig, LLP (included in Exhibit 5.1).

**24.1 Power of Attorney (contained in signature page).

II-6

^{*} Filed herewith.

^{**} To be subsequently filed by amendment to this registration statement or by a report filed under the Securities Exchange Act of 1934, as amended, and incorporated or deemed to be incorporated by reference to this registration statement.