

SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

SCHEDULE 13D  
Under the Securities Exchange Act of 1934

**Arch Therapeutics, Inc.**

(Name of Issuer)

**Common Stock, \$0.001 par value**

(Title of Class of Securities)

**03939W 109**

**Avtar Dhillon, M.D.**

**c/o Arch Therapeutics, Inc.**

**One Broadway, 14<sup>th</sup> Floor**

**Cambridge, Massachusetts 02142**

**(617) 475-5254**

(Name, Address, and Telephone Number of Person Authorized  
to Receive Notices and Communications)

With a copy to:

**June 26, 2013**

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

*Note:* Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties to whom copies are to be sent.

\* 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).

(Continued on following pages)

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|   |   |   |
|---|---|---|
| 1   | NAME OF REPORTING PERSONS<br><b>Avtar Dhillon, M.D.</b>   |   |
| 2   | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)<br>(a) <input type="checkbox"/><br>(b) <input type="checkbox"/> |   |
| 3   | SEC USE ONLY  |   |
| 4   | SOURCE OF FUNDS (See Instructions)<br><b>OO</b>   |   |
| 5   | CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) <input type="checkbox"/>                    |   |
| 6   | CITIZENSHIP OR PLACE OF ORGANIZATION<br><b>U.S.A.</b>   |   |
| NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH |   | 7<br>SOLE VOTING POWER<br><b>7,160,373</b>      |
|   |   | 8<br>SHARED VOTING POWER<br><b>0</b>            |
|   |   | 9<br>SOLE DISPOSITIVE POWER<br><b>7,160,373</b> |
|   |   | 10<br>SHARED DISPOSITIVE POWER<br><b>0</b>      |
| 11  | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON<br><b>7,160,373</b>  |   |
| 12  | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions) <input type="checkbox"/>                   |   |
| 13  | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)<br><b>12.2% <sup>(1)</sup></b>   |   |
| 14  | TYPE OF REPORTING PERSON (See Instructions)<br><b>IN</b>  |   |

(1) The percentage was calculated based on 58,645,212 shares of Common Stock (as defined in Item 1 below) outstanding on June 26, 2013, as disclosed by the Issuer in its Current Report on Form 8-K filed with the Commission (as defined in Item 3 below) on June 26, 2013.

**Item 1. Security and Issuer.**

This Schedule 13D (this “Statement”) relates to the common stock, \$0.001 par value per share (“Common Stock”) of Arch Therapeutics, Inc., a Nevada corporation (the “Issuer”). The address of the principal executive offices of the Issuer is One Broadway, 14<sup>th</sup> Floor, Cambridge, Massachusetts 02142.

**Item 2. Identity and Background.**

(a) This Schedule 13D is being filed by Avtar Dhillon, M.D. (the “Reporting Person”).

(b) The business address of the Reporting Person is c/o Arch Therapeutics, Inc., One Broadway, 14<sup>th</sup> Floor, Cambridge, Massachusetts 02142.

(c) The Reporting Person is the Chairman of the Board of Directors of the Issuer, whose address is set forth in Item 2(b) above. The Reporting Person is also a director on the Board of Directors of several other public and private companies.

(d) During the last five years the Reporting Person has not been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors).

(e) The Reporting Person is not, and has not been during the last five years, a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is subject to a judgment, decree, or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws, or finding any violation with respect to such laws.

(f) The Reporting Person is a citizen of the United States of America.

**Item 3. Source and Amount of Funds or Other Consideration.**

On June 26, 2013, the Reporting Person received 160,373 shares of Common Stock in consideration for the cancellation of his shares of, and outstanding promissory notes convertible into shares of, the common stock of Arch Therapeutics, Inc., a Massachusetts corporation (“Arch Massachusetts”), which cancellation was effected pursuant to the consummation of the merger (the “Merger”) of Arch Massachusetts with and into Arch Acquisition Corporation, a wholly-owned subsidiary of the Issuer formed for the purpose of the Merger. The Merger was effected pursuant to the terms and conditions of an agreement and plan of merger dated as of May 10, 2013 (the “Merger Agreement”) by and among the Issuer, Arch Acquisition Corporation, and Arch Massachusetts. The Merger and the terms and provisions of the Merger Agreement are described more fully in the Issuer’s Current Reports on Form 8-K filed with the Securities and Exchange Commission (the “Commission”) on May 13, 2013 and June 26, 2013 and the above summary is qualified by reference to such descriptions and the full text of the Merger Agreement, which is filed as an exhibit to the Issuer’s Current Report on Form 8-K filed with the Commission on May 13, 2013.

As a condition to the closing of the Merger, the Merger Agreement required that the Reporting Person or his specified designees be the holder of record of 10,000,000 shares of Common Stock. In satisfaction of that condition, and for the agreement to pay additional nominal cash consideration, the Reporting Person acquired 7,000,000 shares of Common Stock from a third party in a private transaction prior to the consummation of the Merger.

**Item 4. Purpose of Transaction.**

The Reporting Person received shares of Common Stock in consideration for his shares of, and securities convertible into shares of, the common stock of Arch Massachusetts upon the consummation of the Merger, and acquired shares of Common Stock from a third party in a private transaction in satisfaction of a condition to the closing of the Merger.

The Reporting Person holds shares of Common Stock for general investment purposes. Subject to ongoing evaluation, except as set forth in this Statement, the Reporting Person has no current plans and has not made or entered into any proposals or agreements that would be related to or would result in any of the events or matters described in Item 4 of Schedule 13D.

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**Item 5. Interest in Securities of the Issuer.**

(a) According to the Issuer's Current Report on Form 8-K filed with the Commission on June 26, 2013, after giving effect to the shares of Common Stock issued in connection with the closing of the Merger, as of June 26, 2013 there were 58,645,212 shares of Common Stock outstanding. The Reporting Person beneficially owns 7,160,373 shares of Common Stock, which represents approximately 12.2% of the outstanding shares of Common Stock.

(b) The Reporting Person has sole power to vote and sole power to dispose of 7,160,373 shares of Common Stock.

(c) Except as reported in this Statement, the Reporting Person has not effected any transactions in the Issuer's Common Stock during the past 60 days.

(d) Not applicable.

(e) Not applicable.

**Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer.**

Reference is made to Item 3 of this Statement.

In connection with the consummation of the Merger, the Reporting Person has executed a lock-up agreement in favor of the Issuer, pursuant to which the Reporting Person is restricted from selling or otherwise transferring any of the shares of Common Stock currently held by him for the following periods: for the first 18 months following the closing of the Merger on June 26, 2013, all such shares will be subject to the restrictions set forth in the lock-up agreement, and thereafter 25% of such shares will be released from the restrictions set forth in the lock-up agreement every three months until 100% of such shares are released therefrom. The terms and provisions of the lock-up agreement are described more fully in the Issuer's Current Report on Form 8-K filed with the Commission on June 26, 2013 and the above summary is qualified by reference to such description and the full text of the lock-up agreement, which is filed as an exhibit to this Statement.

Except as disclosed herein, there are no contracts, arrangements, understandings or relationships (legal or otherwise) among the Reporting Persons and any other person with respect to any securities of the Issuer, including without limitation relating to the transfer or voting of any of the securities, finder's fees, joint ventures, loan or option arrangements, puts or calls, guarantees of profits, division of profits or loss, or the giving or withholding of proxies.

**Item 7. Material to be Filed as Exhibits.**

Exhibit A: Form of Lock-Up Agreement

Exhibit B: Agreement and Plan of Merger, dated May 10, 2013, by and among Arch Therapeutics, Inc., a Nevada corporation, Arch Acquisition Corporation, a Massachusetts corporation, and Arch Therapeutics, Inc., a Massachusetts corporation (incorporated by reference to Exhibit 2.1 of the Issuer's Current Report on Form 8-K filed with the Commission on May 13, 2013)

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**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: July 8, 2013

/s/ Avtar Dhillon

Avtar Dhillon

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Dated as of June 20, 2013

Arch Therapeutics, Inc.

Ladies and Gentlemen:

This letter is being delivered to you in connection with the merger (the "Merger") of Arch Acquisition Corporation, a wholly owned subsidiary of Arch Therapeutics, Inc. (formerly known as Almah, Inc.), a Nevada Corporation (the "Company"), with and into Arch Therapeutics, Inc., a Massachusetts corporation (to be named Arch Biosurgery, Inc., "Arch"), as a result of which Arch will become the wholly owned subsidiary of the Company, all pursuant to the terms and conditions of that certain Agreement and Plan of Merger dated May 10, 2013 by and among the Company, Arch Acquisition Corporation and Arch. In connection with the Merger, the undersigned has received an aggregate of 7,000,000 shares (the "Shares") of the common stock, par value \$0.001 per share, of the Company.

In connection with the Merger and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned agrees that, during the Lock-Up Period (as defined below), the undersigned will not, without the prior written consent of the Company, sell, contract to sell or otherwise transfer or dispose of (or enter into any transaction or device that is designed to, or could be expected to, result in a disposition by the undersigned at any time in the future of) the Shares, except for transfers that qualify as a bona fide gift or gifts, provided that the donee or donees thereof agree in writing to be bound by transfer restrictions substantially similar to those set forth herein (the restrictions set forth in this sentence, the "Lock-Up Restrictions"). The undersigned understands and agrees that the Lock-Up Restrictions expressly preclude the undersigned from engaging in any hedging or other transaction which is designed to or reasonably expected to lead to or result in disposition of the Shares during the Lock-Up Period even if such Shares would be disposed of by someone other than the undersigned, including, without limitation, any short sale (whether or not against the box) or any purchase, sale or grant of any right (including, without limitation, any put or call option) with respect to an of the Shares or with respect to any of the Shares (other than a broad-based market basket or index) that includes, relates to or derives any significant part of its value from the Shares. As used herein, the "Lock-Up Period" shall mean the period commencing on and including the date of the closing of the Merger and continuing through and including the date that is thirty (30) months after the date of the closing of the Merger; provided, however, that, on the day following the date that is eighteen (18) months after the date of the closing of the Merger and on each three-month anniversary of such day, twenty-five percent (25%) of the total number of Shares shall be released in full from the Lock-Up Restrictions.

The undersigned further acknowledges and agrees that (i) the Shares are not be registered and are "restricted stock" under the Securities Act of 1933, as amended, and (ii) the Company and its agents are authorized to refuse to register on the books of the Company any transfer of any Shares by the undersigned that is not made in accordance with the provisions set forth in this letter during the Lock-Up Period.

The undersigned hereby represents and warrants that he undersigned has full right, power and authority (and, if an individual, legal capacity) to complete, execute and deliver this letter and perform its obligations hereunder. By executing this letter, the undersigned intends to irrevocably bind the undersigned and the personal representatives, successors, and assigns of the undersigned.

*[Signature Page Immediately Follows]*

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IN WITNESS WHEREOF, the undersigned has executed and delivered this agreement as of the date first set forth above.

Yours very truly,

*IF THE UNDERSIGNED IS AN INDIVIDUAL:*

/s/ Avtar Dhillon

Print Name: Avtar Dhillon

*IF THE UNDERSIGNED IS AN ENTITY”:*

\_\_\_\_\_  
Signature: \_\_\_\_\_

By (Print Name): \_\_\_\_\_

Title: \_\_\_\_\_

*Signature Page — Lock-Up Letter*

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