

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

SCHEDULE 13G

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

Advanced Life Sciences Holdings, Inc.

(Name of Issuer)

Common Stock, \$0.01 par value

(Title of Class of Securities)

00765H107

(CUSIP Number)

December 31, 2005

(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 the disclosures provided in a prior cover page.

The information required in 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).

CUSIP No. 00765H107

1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only)
Abbott Laboratories 36-0698440

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a) N/A

(b) N/A

3. SEC Use Only

4. Citizenship or Place of Organization
Illinois

Number of
Shares
Beneficially
Owned by
Each
Reporting
Person With

5. Sole Voting Power
1,722,569

6. Shared Voting Power
None

7. Sole Dispositive Power
1,722,569

8. Shared Dispositive Power
None

9. Aggregate Amount Beneficially Owned by Each Reporting Person
1,722,569

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)
N/A

11. Percent of Class Represented by Amount in Row (9)
9.6%

12. Type of Reporting Person (See Instructions)
CO

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Item 1.

- (a) Name of Issuer
Advanced Life Sciences Holdings, Inc.
-
- (b) Address of Issuer's Principal Executive Offices
1440 Davey Road
Woodridge, Illinois 60517
-

Item 2.

- (a) Name of Person Filing
Abbott Laboratories
-
- (b) Address of Principal Business Office or, if none, Residence
100 Abbott Park Road
Abbott Park, Illinois 60064-6400
-
- (c) Citizenship
Illinois
-
- (d) Title of Class of Securities
Common Stock, \$0.01 par value
-
- (e) CUSIP Number
00765H107
-

Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

- (a) Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
- (b) Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c) Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d) Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
- (e) An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- (f) An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g) A parent holding company or control person in accordance with § 240.13d-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 (15 U.S.C. 80a-3);
- (j) Group, in accordance with §240.13d-1(b)(1)(ii)(J).

Not Applicable

Item 4. Ownership

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned:

1,722,569 shares

- (b) Percent of class:

9.6%

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

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

1,722,569 shares

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

None

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

1,722,569 shares

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

None

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

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following o.

N/A

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

N/A

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

N/A

Item 8. Identification and Classification of Members of the Group

N/A

Item 9. Notice of Dissolution of Group

N/A

Item 10. Certification

N/A

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.

Date: February14, 2006

Abbott Laboratories

By: /s/ Thomas C. Freyman
Name: Thomas C. Freyman
Title: Executive Vice President, Finance and
Chief Financial Officer