

LAUKIEN DIRK D  
Form SC 13G/A  
February 09, 2006

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

**SCHEDULE 13G/A**

Under the Securities Exchange Act of 1934  
(Amendment No. 5)\*

**Bruker BioSciences Corporation**

(Name of Issuer)

**Common Stock**

(Title of Class of Securities)

**116794108**

(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. 116794108

- |     |   |
|-----|---|
| 1.  | Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only)<br>Dirk D. Laukien                    |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)<br>(a) <input type="radio"/><br>(b) <input type="radio"/> |
| 3.  | SEC Use Only  |
| 4.  | Citizenship or Place of Organization<br>United States   |
| 5.  | Sole Voting Power<br>Approximately 11,047,610 shares  |
| 6.  | Shared Voting Power<br>36,300 shares  |
| 7.  | Sole Dispositive Power<br>Approximately 11,047,610 shares   |
| 8.  | Shared Dispositive Power<br>36,300 shares   |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>Approximately 11,083,910 shares                               |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="radio"/>                     |
| 11. | Percent of Class Represented by Amount in Row (9)<br>12.4%  |
| 12. | Type of Reporting Person (See Instructions)<br>IN   |

Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person With

Item 1.

- (a) Name of Issuer  
Bruker BioSciences Corporation
- (b) Address of Issuer's Principal Executive Offices  
  
40 Manning Road  
  
Billerica, MA 01821

Item 2.

- (a) Name of Person Filing  
Dirk D. Laukien
- (b) Address of Principal Business Office or, if none, Residence  
2635 Crescent Ridge Drive  
  
The Woodlands, TX 77381
- (c) Citizenship  
United States
- (d) Title of Class of Securities  
Common Stock, par value \$0.01 per share.
- (e) CUSIP Number  
116794108

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:
  - 11,083,910 shares
- (b) Percent of class:
  - 12.4%
- (c) Number of shares as to which the person has:
  - (i) Sole power to vote or to direct the vote
  - (ii) 11,047,610 shares  
Shared power to vote or to direct the vote
  - (iii) 36,300 shares  
11,047,610 shares
  - (iv) Shared power to dispose or to direct the disposition of  
36,300 shares

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 .

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

Not applicable.

## 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.

February 2, 2006.  
Date

/s/ Dirk D. Laukien  
Signature

Dirk D. Laukien  
Name/Title