Chilton Anthony S Form 4 May 14, 2010

FORM 4

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

Check this box

if no longer subject to Section 16. Form 4 or

Form 5 obligations

may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

2. Issuer Name and Ticker or Trading

BIOANALYTICAL SYSTEMS INC

(Print or Type Responses)

(Last)

(City)

1. Title of

Security

(Instr. 3)

1. Name and Address of Reporting Person *

Chilton Anthony S

(First) (Middle)

2701 KENT AVENUE

(Street)

WEST LAFAYETTE, IN 47906

(State)

(Month/Day/Year)

3. Date of Earliest Transaction

(Month/Day/Year) 05/12/2010

Symbol

[BASI]

4. If Amendment, Date Original

Filed(Month/Day/Year)

Execution Date, if

(Month/Day/Year)

(Zip)

2. Transaction Date 2A. Deemed

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 3. 4. Securities

TransactionAcquired (A) or Code Disposed of (D) (Instr. 8)

(Instr. 3, 4 and 5)

Beneficially Owned Following

Reported (A) Transaction(s) (Instr. 3 and 4)

Issuer

below)

Person

5. Amount of

Securities

_X__ Director

Applicable Line)

X_ Officer (give title

Code V Amount (D) Price

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of SEC 1474 information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Conversion Security or Exercise

3. Transaction Date 3A. Deemed (Month/Day/Year) Execution Date, if

any

4. 5. Number of TransactionDerivative Code Securities

6. Date Exercisable and **Expiration Date** (Month/Day/Year)

7. Title and Amount of **Underlying Securities** (Instr. 3 and 4)

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

5. Relationship of Reporting Person(s) to

(Check all applicable)

CEO and President

6. Ownership

Form: Direct

(D) or Indirect Beneficial

6. Individual or Joint/Group Filing(Check

X Form filed by One Reporting Person Form filed by More than One Reporting

(T)

(Instr. 4)

10% Owner

Other (specify

7. Nature of

Ownership

(9-02)

(Instr. 4)

Indirect

Estimated average

burden hours per

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(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr.	8)	Acquired (A Disposed of (Instr. 3, 4, 5)	f (D)				
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Option to purchase common	\$ 0.99	05/12/2010		A		125,000		<u>(1)</u>	05/12/2020	Common Stock	125,000

Reporting Owners

WEST LAFAYETTE, IN 47906

Reporting Owner Name / Address	Relationships							
	Director	10% Owner	Officer	Other				
Chilton Anthony S								
2701 KENT AVENUE	X		CEO and President					

Signatures

/s/ Michael R. Cox, as attorney-in-fact for Anthony S.
Chilton 05/13/2010

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) The option is exercisable in three equal annual installments beginning on January 31, 2011.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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