INITIAL STATEMENT OF 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

3235-0104 January 31, Expires: 2005 Estimated average burden hours per 0.5 response...

(Print or Type Responses)

1. Name and Address of Reporting Person <u>*</u> Hodges Kathleen			2. Date of Event Requiring Statement (Month/Day/Year)		³ 3. Issuer Name and Ticker or Trading Symbol BIOANALYTICAL SYSTEMS INC [BASI]					
(Last)	(First)	(Middle)	04/15/2010		4. Relationship of Reporting Person(s) to Issuer			5. If Amendment, Date Original Filed(Month/Day/Year)		
2701 KENT AVENUE (Street)					(Check	ek all applicable)		6 Individu	al or Joint/Group	
WEST LAFAYETTI		7906			Director10% Owner XOfficerOther (give title below) (specify below) Vice President of Quality		Eiling(Charle Applicable Ling)			
(City)	(State)	(Zip)	Т	Table I - N	lon-Derivat	ive S	Securities E	eneficially	Owned	
1.Title of Security (Instr. 4)			E	2. Amount of Securities Beneficially Owned (Instr. 4)				lature of Indira nership tr. 5)	ect Beneficial	
Reminder: Report owned directly o	*	te line for ea	ch class of securi	ties benefici	ally S	EC 14	473 (7-02)			
	informa require	ation conta d to respo	pond to the col ained in this for nd unless the f MB control nun	rm are not form displa						
Τε	ıble II - Deri	vative Secu	rities Beneficially	y Owned (e.	g., puts, calls,	warr	ants, options	, convertible s	ecurities)	
1. Title of Deriv (Instr. 4)	ative Security	7 2. Date Expirati (Month/Day Date		Securit	and Amount o ies Underlying tive Security 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D)	6. Nature of Indirect Beneficial Ownership (Instr. 5)	

Title

Amount or

Number of

Shares

or Indirect

(Instr. 5)

(I)

Exercisable Date

			-				
Option to Buy Common Shares	(1)	09/04/2018	Common Shares	5,000	\$ 5.09	D	Â

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Reporting Owners

Reporting Owner Name / Address	Relationships					
FB	Director	Director 10% Owner Officer				
Hodges Kathleen 2701 KENT AVENUE WEST LAFAYETTE, IN 47906	Â	Â	Vice President of Quality	Â		
Signatures						
/s/ Lina Reeves-Kerner as attorney-in Hodges	04/19/2010					
**Signature of Reporting Pe	Date					
E I I' (D		_				

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 5(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 vests in four equal annual installments beginning on September 4, 2009.

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.