BARNHILL GREGORY HURD

Form 4

December 16, 2009

FORM 4

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

OMB 3235-0287 Number:

Estimated average

Check this box if no longer subject to Section 16.

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

January 31, Expires: 2005

Form 4 or Form 5 obligations may continue.

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

burden hours per response... 0.5

OMB APPROVAL

See Instruction 1(b).

(Print or Type Responses)

1. Name and Add BARNHILL (•	_	2. Issuer Name and Ticker or Trading Symbol PURE BIOSCIENCE [PURE]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction			
10801 STEVENSON RD			(Month/Day/Year) 12/14/2009	X Director 10% Owner Officer (give title below) Other (specify below)		
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
Filed(N STEVENSON, MD 21153			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

(State)

(Zip)

(City)

(City)	(State)	(Zip) Tabl	e I - Non-D	Derivative So	ecuriti	es Acqu	ired, Disposed of	, or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date 2A. Deemed (Month/Day/Year) 2A. Deemed Execution Date, if any (Month/Day/Year)		3. 4. Securities Acc Transaction(A) or Disposed Code (Instr. 3, 4 and 5 (Instr. 8)			of (D)	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	
Common Stock	12/14/2009		M	150,000	A	\$ 0.53	757,918 (1)	D	
Common Stock	12/14/2009		F	48,182	D	\$ 1.65	757,918 <u>(1)</u>	D	

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 (9-02)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)

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4.

Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio			Expiration Dat		Underlying S	
Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code (Instr. 8)	Acqu Disp	rities nired (A) or osed of (D) r. 3, 4, and	(Month/Day/Y	ear)	(Instr. 3 and	4)
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount of Number of Shares
Option	\$ 0.53	12/14/2009		M		150,000	12/21/2004	12/20/2009	Common Stock	150,00

5. Number of

Date

6. Date Exercisable and

7. Title and Amount of

Reporting Owners

Reporting Owner Name / Address	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
BARNHILL GREGORY HURD 10801 STEVENSON RD STEVENSON, MD 21153	X						

3. Transaction Date 3A. Deemed

Signatures

1. Title of 2.

/s/ Dennis Brovarone Attorney-in-fact for Gregory Barnhill 12/16/2009 **Signature of Reporting Person

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).
- Incorporates all transactions being reported on this Form 4

Remarks:

There are no other changes to previously reported derivative securities

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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