FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL						
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* LABORATORY CORP OF AMERICA HOLDINGS	2. Date of Eve Requiring Sta (Month/Day/Y 08/04/2009	tement 'ear)	3. Issuer Name and Ticker or Trading Symbol Monogram Biosciences, Inc. [[MGRM]]							
(Last) (First) (Middle)			4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner		(Mon	5. If Amendment, Date of Original Filed (Month/Day/Year)				
358 S MAIN ST			Officer (give title below)	Other (spe		ndividual or Joint/Group Filing (Check olicable Line)				
(Street) BURLINGTON NC 27215					X	,	/ One Reporting Person / More than One erson			
(City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned										
1. Title of Security (Instr. 4) 2. Amount of Securities 3. Ownership 4. Nature of Indirect Beneficial Ownership										
1. The of Security (instr. 4)		Beneficially Owned (Instr. 4)	Form: Direct or Indirect (t (D) (Instr.	(Instr. 5)					
Common Stock		19,719,606	I	By M	Mastiff Acquisition Corp. (1)					
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)										
1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise	5. Ownership Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)			
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)				
Top-Up Option (right to buy)	08/04/2009	(2)	Common Stock	10,623,670	4.55	I	By Mastiff Acquisition Corp. ⁽³⁾			

Explanation of Responses:

- 1. These shares are owned directly by Mastiff Acquisition Corp., which is a wholly-owned subsidiary of Laboratory Corporation of America Holdings ("LabCorp"). LabCorp is the indirect beneficial owner of the reported securities.
- 2. The Top-Up Option is exercisable, in whole but not in part, at any time prior to the earlier of (i) the Effective Time (as defined in the Agreement and Plan of Merger, dated June 22, 2009 among LabCorp, Mastiff Acquisition Corp., and the issuer (the "Merger Agreement"), filed as Exhibit 2.1 to the Form 8-K filed by the issuer with the Securities and Exchange Commission on June 24, 2009) and (ii) the termination of the Merger Agreement pursuant to Section 7.1 thereof.
- 3. The right to exercise the Top-Up Option is held directly by Mastiff Acquisition Corp., which is a wholly-owned subsidisry of LabCorp. LabCorp is the indirect beneficial owner of the reported securities.

/s/ F. Samuel Eberts III, Authorized Person 08/06/2009

** Signature of Reporting Person Date

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

- * 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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