

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

OMB APPROVAL	
OMB Number:	3235-0287
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1. Name and Address of Reporting Person* <u>LABORATORY CORP OF AMERICA HOLDINGS</u> (Last) (First) (Middle) <u>358 S MAIN ST</u> (Street) <u>BURLINGTON NC 27215</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>ORCHID CELLMARK INC [ORCH]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) <u>12/15/2011</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	
6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person		

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock, par value \$.001	12/15/2011		p ⁽²⁾		51,937	A	\$2.8	26,182,896	I	See footnote ⁽¹⁾
Common Stock, par value \$.001	12/15/2011		p ⁽³⁾		8,273,065	A	\$2.8	34,455,961	I	See footnote ⁽¹⁾

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					

Explanation of Responses:

- The Reporting Person is filing this Form 4 on behalf of itself and OCM Acquisition Corp. ("OCM"), a Delaware corporation and a wholly owned subsidiary of the reporting person.
- These shares were acquired by OCM during the subsequent offering period of the tender offer for all outstanding shares of common stock of the Issuer, including, to the extent outstanding, the associated preferred stock purchase rights issued under the Rights Agreement, dated July 27, 2001, as amended, between the Issuer and American Stock Transfer & Trust Company, as rights agent (the "Offer"). The Offer was made upon the terms and subject to the conditions set forth in the Offer to Purchase, dated April 19, 2011, which was annexed to and filed with the Schedule TO filed by the Reporting Person with the Securities and Exchange Commission on April 19, 2011.
- These shares were acquired by OCM pursuant to the exercise of the Top-Up Option set forth in the Agreement and Plan of Merger, dated April 5, 2011, as amended, among the Reporting Person, OCM and the Issuer.

/s/ F. Samuel Eberts III, Senior Vice President and Chief Legal Officer of Laboratory Corporation of America Holdings 12/16/2011

** 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 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).

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

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