

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

October 25, 2007
(Date of earliest event reported)

**LABORATORY CORPORATION OF
AMERICA HOLDINGS**

(Exact Name of Registrant as Specified in its Charter)

DELAWARE

(State or other jurisdiction
of Incorporation)

1-11353

(Commission
File Number)

13-3757370

(I.R.S. Employer
Identification No.)

**358 SOUTH MAIN STREET,
BURLINGTON, NORTH CAROLINA**

(Address of principal executive offices)

27215

(Zip Code)

336-229-1127

(Registrant's telephone number including area code)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

ITEM 7.01. Regulation FD Disclosure

On October 25, 2007, Laboratory Corporation of America[®] Holdings (LabCorp[®]) (NYSE: LH), an industry leader in prenatal clinical laboratory testing, announced that it now offers Integrated screening and Sequential screening tests under license from Intema Limited. When Integrated screening and Sequential screening test results include a fetal ultrasound nuchal translucency measurement, the highest Down syndrome detection rates are achieved and fewer false positives are experienced than with current first- or second-trimester screening.

Exhibits

99.1 Press Release dated October 25, 2007

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Laboratory Corporation of America Holdings
(Registrant)

Date: October 25, 2007

By: /s/Bradford T. Smith
Bradford T. Smith, Executive Vice President
and Secretary

Laboratory Corporation of America® Holdings
358 South Main Street
Burlington, NC 27215
Telephone:(336) 584-5171

FOR IMMEDIATE RELEASE

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Shareholder Direct: (800)LAB-0401

Company Information: www.LabCorp.com

**LABCORP® LAUNCHES INTEGRATED AND SEQUENTIAL PRENATAL SCREENING
TECHNOLOGY FOR DOWN SYNDROME**

More Sensitive Technology Improves Assessment of Down Syndrome Risk

Burlington, NC, October 25, 2007 — Laboratory Corporation of America® Holdings (LabCorp®) (NYSE: LH), an industry leader in prenatal clinical laboratory testing, announced that it now offers Integrated screening and Sequential screening tests under license from Intema Limited. When Integrated screening and Sequential screening test results include a fetal ultrasound nuchal translucency measurement, the highest Down syndrome detection rates are achieved and fewer false positives are experienced than with current first- or second-trimester screening.

In January 2007, the American College of Obstetricians and Gynecologists issued a Practice Bulletin recommending that regardless of age, all pregnant women be offered screening for Down syndrome, and ideally, be offered screening that combines first- and second-trimester screening. Subsequently, LabCorp announced an agreement with Intema, Ltd. to license its technology for combining first and second trimester Down syndrome screening test results.

“LabCorp is pleased to be the first full-service, national clinical laboratory to license and make commercially available Integrated and Sequential Down syndrome screening technology,” said LabCorp’s Executive Vice President, Chief Scientific Officer and Medical Director, Myla P. Lai-Goldman, M.D. “Adding these tools to our comprehensive menu of prenatal testing services will allow physicians to offer patients a broader range of screening tests with higher detection rates and low false positive rates. This can help reduce the number of invasive tests needed and potentially reduce the number of procedure-related pregnancy losses.”

About LabCorp®

Laboratory Corporation of America® Holdings, a S&P 500 company, is a pioneer in commercializing new diagnostic technologies and the first in its industry to embrace genomic testing. With annual revenues of \$3.6 billion in 2006, over 25,000 employees nationwide, and more than 220,000 clients, LabCorp offers clinical assays ranging from routine blood analyses to HIV and genomic testing. LabCorp combines its expertise in innovative clinical testing technology with its Centers of Excellence: The Center for Molecular Biology and Pathology, National Genetics Institute, Inc., ViroMed Laboratories, Inc., The Center for Esoteric Testing, DIANON Systems, Inc., US LABS, and Esoterix and its Colorado Coagulation, Endocrine Sciences, and Cytometry Associates laboratories. LabCorp clients include physicians, government agencies, managed care organizations, hospitals, clinical labs, and pharmaceutical companies. To learn more about our growing organization, visit our Web site at: www.labcorp.com.

Each of the above forward-looking statements is subject to change based on various important factors, including without limitation, competitive actions in the marketplace and adverse actions of governmental and other third-party payors. Actual results could differ materially from those suggested by these forward-looking statements. Further information on potential factors that could affect LabCorp’s financial results is included in the Company’s Form 10-K for the year ended December 31, 2006, and subsequent SEC filings.