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

FORM 11-K

(Mark One)

 X

ANNUAL REPORT PURSUANT TO SECTION 15 (d) OF THE
SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2009

OR

 TRANSITION REPORT PURSUANT TO SECTION 15 (d) OF THE
SECURITIES EXCHANGE ACT OF 1934 (NO FEE REQUIRED)

For the transition period from _____ to _____

Commission File Number 001-14273

A. Full title of the plan and the address of the plan, if different from that of the issuer named below:

CORE LABORATORIES PROFIT SHARING AND RETIREMENT PLAN

6316 Windfern Road
Houston, Texas 77040

B. Name of issuer of the securities held pursuant to the plan and the address of its principal executive office:

Core Laboratories N.V.

Herengracht 424
1017 BZ Amsterdam
The Netherlands

REQUIRED INFORMATION

The Core Laboratories Profit Sharing and Retirement Plan is subject to the requirements of the Employee Retirement Income Security Act of 1974, also known as ERISA.

ITEM 4. As permitted by the U.S. Securities and Exchange Commission Rules, Items 1, 2, and 3 of this Annual Report on Form 11-K have been omitted, and the following financial statements of the Plan, notes to such financial statements, and the Report of Independent Registered Public Accounting Firm on such financial statements are being filed in this Report in accordance with ERISA reporting requirements:

- (a) Report of Independent Registered Public Accounting Firm
- (b) Statements of Net Assets Available for Benefits at December 31, 2009 and 2008
- (c) Statement of Changes in Net Assets Available for Benefits for the Year Ended December 31, 2009
- (d) Notes to Financial Statements as of December 31, 2009 and 2008
- (e) Schedule H, Line 4i - Schedule of Assets (Held at End of Year), as of December 31, 2009

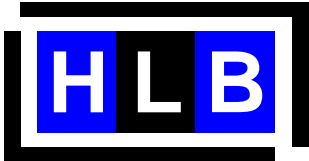
The Independent Registered Public Accounting Firm's Consent to the incorporation by reference of these financial statements in the Registration Statement on Form S-8 (No. 333-73772, 333-73774), which pertains to the Core Laboratories Profit Sharing and Retirement Plan, is being filed as Exhibit 23.1 to this Annual Report on Form 11-K.

**CORE LABORATORIES
PROFIT SHARING AND RETIREMENT PLAN
DECEMBER 31, 2009 and 2008**

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* All other schedules required by Section 2520.103-10 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 have been omitted because the schedules are not applicable.



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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Plan Administrator of Core Laboratories Profit Sharing and Retirement Plan:

We have audited the accompanying Statements of Net Assets Available for Benefits of the Core Laboratories Profit Sharing and Retirement Plan (the "Plan") as of December 31, 2009 and 2008 and the related Statement of Changes in Net Assets Available for Benefits for the year ended December 31, 2009. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. We were not engaged to perform an audit of the Plan's internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2009 and 2008 and the changes in net assets available for benefits for the year ended December 31, 2009 in conformity with accounting principles generally accepted in the United States of America.

Our audits were performed for the purpose of forming an opinion on the basic financial statements taken as a whole. The supplemental schedule of assets (held at end of year) as of December 31, 2009 is presented for the purpose of additional analysis and is not a required part of the basic financial statements, but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. This supplemental schedule is the responsibility of the Plan's management. This supplemental schedule has been subjected to the auditing procedures applied in the audit of the basic financial statements and, in our opinion, is fairly stated, in all material respects, in relation to the basic financial statements taken as a whole.

/s/ Ham, Langston & Brezina L.L.P.

Houston, Texas
June 25, 2010

**CORE LABORATORIES
PROFIT SHARING AND RETIREMENT PLAN
STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS
AS OF DECEMBER 31, 2009 AND 2008**

	<u>2009</u>	<u>2008</u>
ASSETS		
Cash, non-interest bearing	\$ 6,675	\$ 22,051
Investments, at fair value:		
Money market funds	1,170	38,573
Life insurance contract	38,305	38,305
Common collective trust	19,375,185	15,128,138
Core Laboratories N.V. common stock	34,234,365	19,081,333
Registered investment companies (mutual funds)	61,944,906	42,720,074
Participant loans	2,372,994	2,145,208
Total investments, at fair value	<u>117,966,925</u>	<u>79,151,631</u>
Receivables:		
Participants contributions	169,514	176,832
Employer contributions	788,517	1,390,635
Other	44,606	71,242
Total receivables	<u>1,002,637</u>	<u>1,638,709</u>
Total assets	<u>118,976,237</u>	<u>80,812,391</u>
LIABILITIES		
Other payables	<u>13,000</u>	<u>64,930</u>
Total liabilities	<u>13,000</u>	<u>64,930</u>
NET ASSETS AVAILABLE FOR BENEFITS AT FAIR VALUE	<u>118,963,237</u>	<u>80,747,461</u>
Adjustment from fair value to contract value for interest in collective trust relating to fully benefit-responsive investment contracts	<u>(380,308)</u>	<u>725,564</u>
NET ASSETS AVAILABLE FOR BENEFITS	<u>\$ 118,582,929</u>	<u>\$ 81,473,025</u>

The accompanying notes are an integral part of these financial statements.

**CORE LABORATORIES
PROFIT SHARING AND RETIREMENT PLAN
STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS
FOR THE YEAR ENDED DECEMBER 31, 2009**

Additions to net assets attributed to:	
Investment income:	
Interest and dividend income	\$ 2,334,986
Net appreciation in fair value of investments	<u>31,079,352</u>
Total investment income, net	<u>33,414,338</u>
Contributions:	
Participant	5,554,789
Employer	3,351,759
Participant rollovers	<u>254,992</u>
Total contributions	<u>9,161,540</u>
Total investment income and contributions	<u>42,575,878</u>
Deductions from net assets attributed to:	
Withdrawals and retirement benefits	5,264,071
Administrative expenses	<u>201,903</u>
Total deductions	<u>5,465,974</u>
Net increase in net assets available for benefits:	37,109,904
Net assets available for benefits, beginning of year	<u>81,473,025</u>
Net assets available for benefits, end of year	<u>\$118,582,929</u>

The accompanying notes are an integral part of these financial statements.

**CORE LABORATORIES
PROFIT SHARING AND RETIREMENT PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2009 and 2008**

1. SUMMARY OF SIGNIFICANT PLAN PROVISIONS

The Core Laboratories Profit Sharing and Retirement Plan (the "Plan" or "Core Lab Plan") is sponsored by an entity (the "Company") wholly owned by Core Laboratories N.V. and was established through its predecessor entity, Core Laboratories, Inc. effective October 1, 1994. The following brief description of the Plan provides only general information. Participants should refer to the summary plan description or Plan document for a more complete description of the Plan's provisions.

The Plan is a defined contribution plan and is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended ("ERISA") and the Internal Revenue Code (the "Code").

Plan Amendments

Effective October 1, 2009, the Plan was amended to allow participants to elect to defer either a fixed amount or an integral percentage of their compensation to the Plan. In addition, the Plan was amended on October 1, 2009, to allow participants to change their deferral election percentage or fixed amount effective as of any entry date. Effective January 1, 2008 the Plan was amended to comply with the regulations under Final Code Section 415.

Plan Administrator and Trustee

An administrative committee appointed by the Company is the Plan administrator as defined under ERISA. The 401K Company (the "Recordkeeper") has been contracted to provide administration services for the Plan, including maintaining the Plan's participant account balances. Charles Schwab Trust Company (the "Trustee") is the trustee of all investments held by the Plan. The management companies that issue securities are custodians of the mutual fund investments and the Pershing Division of The Bank of New York Mellon Corporation is custodian of Core Laboratories N.V. common stock ("Company Common Stock").

Eligibility

Substantially all of the Company's employees are eligible to participate in the Plan. For most eligible employees, participation may commence upon the later of the first day of the calendar quarter coincident with or following such eligible employee's date of hire or the date on which such employee attains the age of 21. However, certain designated classes of employees must satisfy a service requirement of either six months or 1,000 hours of service during a Plan year before becoming eligible to participate.

Contributions

The Plan allows each participant to make pre-tax contributions of up to 60% of his or her compensation, as defined by the Plan, up to the statutory limit of \$16,500 and \$15,500 for 2009 and 2008, respectively. The Plan also allows participants who attained age 50 before the close of the Plan year to contribute an additional "catch-up" contribution as permitted under the Code. The Company may, in its discretion, make matching contributions equal to a designated percentage of each participant's pre-tax contributions, up to a maximum of a designated percentage of the participant's compensation. In addition, the Company may, in its discretion, make an additional discretionary contribution for a Plan year with respect to each participant who has completed one year of service (as defined by the Plan) and is employed by the Company on the last day of such

Plan year. During 2009 and 2008, the Company made matching contributions in accordance with the Plan provisions up to a maximum of 4% of the participants' compensation. In addition, the Company made discretionary contributions for 2009 and 2008 Plan years equal to 1% and 2%, respectively, of the base compensation of the participants eligible to share in the contribution. Such discretionary contribution was allocated to those eligible participants based upon a formula which included the employee's compensation and weighted average years of service, in accordance with the terms of the Plan document.

The application of certain rules and restrictions under the Code may require that a portion of the contributions from certain highly compensated employees, as well as a portion of the corresponding Company matching contributions, be refunded in order to comply with the Code.

Participant Accounts

Each participant's account is credited with the participant's contribution, the Company's matching contribution, allocations of any additional Company contribution and Plan earnings, and charged with an allocation of administrative expenses. Allocations are generally based on participant earnings or account balances, as applicable, in accordance with the terms of the Plan. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account balance.

Vesting

Participants are fully vested in their contributions and related earnings/losses. Participants vest in Company matching and discretionary contributions and the related investment earnings or losses at the rate of 20% for each completed year of service (as defined by the Plan). A participant becomes fully vested in Company contributions and related earnings/losses if such participant, while employed by the Company, becomes totally and permanently disabled, attains normal retirement age, or dies.

Investment Program

Participants may direct the investment of their contributions, the Company's matching contributions, and any additional Company contributions in any of ten mutual funds, one collective trust fund and Company Common Stock.

Contributions may be invested in one fund or divided among two or more funds. Participants may transfer some or all of the balances out of any fund into one or any combination of the other funds on a daily basis. Participants can also choose from four Asset Allocation Models: Conservative Model; Moderate Model; Moderate Aggressive Model or Aggressive Model, each of which represents a designated blend of the available mutual funds. Participants who select one of the Asset Allocation Models can also choose to invest a portion of their account balances in Company Common Stock.

Administrative Expenses

The Plan pays substantially all administrative expenses. For 2009, expenses were comprised of approximately \$62,000 for record keeper fees, \$95,000 for broker fees, \$31,000 for attorney fees, and \$14,000 for audit fees.

Participant Loans

The Plan permits participants to borrow a minimum of \$1,000 and up to a maximum amount equal to the lesser of \$50,000 or 50% of their vested account balances in the Plan. Loans bore interest ranging from 4.36% to 9.13% and 4.96% to 9.13% for the years ended December 31, 2009 and 2008, respectively. Loans are repaid through payroll deductions over a period not to exceed five years and are collateralized by the vested balance in the participant's account.

Payment of Benefits and Forfeitures

Upon termination of employment, death, or retirement, a participant, or the participant's estate in the case of death, may elect to receive a distribution equal to the participant's vested interest in his or her Plan account balance. A participant may elect an in-kind distribution of the portion of his or her vested account balance that is invested in Company Common Stock.

A participant may make an in-service withdrawal from his or her vested account balance at age 59 1/2. Subject to satisfying the applicable requirements of the Code, a participant also may make an in-service withdrawal from his or her pre-tax contributions in the event of financial hardship, although such participant will be suspended from making additional pre-tax contributions to the Plan for a period of six months. A participant can withdraw his or her rollover contributions, if any, from the Plan without being suspended from making additional pre-tax contributions to the Plan.

Upon a participant's termination of employment, any unvested Company contributions and the related investment earnings or losses will be forfeited. Subject to certain conditions, a participant who returns to employment within five years from his or her previous termination date is entitled to have his or her forfeited account balance restored. Forfeitures, net of amounts restored, are used to reduce future Company contributions under the Plan or to pay Plan expenses. During 2009, forfeitures of \$94,311 were used to reduce Company contributions and \$36,959 were used to pay Plan fees. Forfeitures of \$121,784 and \$100,252 were available to reduce future Company contributions or to pay Plan expenses, at December 31, 2009 and 2008, respectively.

Priorities Upon Plan Termination

Although it has not expressed any intent to do so, the Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, participants will become 100% vested in their accounts and the net assets of the Plan will be allocated and distributed among the participants and beneficiaries of the Plan in accordance with ERISA and the terms of the Plan.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting

The financial statements of the Plan are prepared on the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of America ("GAAP"). Distributions to participants are recorded when paid.

As described in the Financial Accounting Standards Board Codification (the "FASB Codification"), investment contracts held by a defined-contribution plan are required to be reported at fair value. However, contract value is the relevant measurement attribute for that portion of the net assets available for benefits of a defined-contribution plan attributable to fully benefit-responsive investment contracts because contract value is the amount participants would receive if they were to initiate permitted transactions under the terms of the Plan. As required by the FASB Codification, the Statement of Net Assets Available for Benefits presents the fair value of the investment contracts as well as the adjustment of the fully benefit-responsive investment contracts from fair value to contract value. The Statement of Changes in Net Assets Available for Benefits is prepared on a contract value basis.

Investment Valuation

Common stock and mutual fund securities are valued at fair value. Common stock values are based on their quoted market prices. Investments in registered investment companies (shares of mutual funds) are valued using quoted market prices which represent the net asset values of shares held by

the Plan at year-end. The Plan's interest in the common collective trust is valued based on information reported by the investment advisor using the audited financial statements of the collective trust at year-end. Participant loans are carried at amortized cost, which approximates fair value. Cash is stated at account value. Investments in life insurance policies are recorded at the cash surrender value of the life insurance policies, as determined by the issuer of the insurance policy, which approximates fair value.

Purchases and sales of securities are recorded on a trade date basis. Dividends are recorded on the ex-dividend date.

Investment Income

Investment income includes the net appreciation in the fair value of the Plan's fair value investments, consisting of realized and unrealized gains and losses. Dividend and interest income from investments are recorded as earned and allocated to participants based upon their proportionate share of assets in each investment fund.

Use of Estimates

The preparation of financial statements in accordance with generally accepted accounting principles in the United States of America requires management to make certain estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of assets and liabilities at the date of the financial statements and the reported amount of net assets available for benefits and changes therein. We evaluate our estimates on an ongoing basis and utilize our historical experience, as well as various other assumptions that we believe are reasonable in a given circumstance, in order to make these estimates. Actual results could differ from our estimates, as assumptions and conditions change.

Benefit Payments

Benefits are recorded when paid.

Recent Accounting Pronouncements

In June 2009, the FASB issued the FASB Accounting Standards Codification ("ASC" or "Codification"). The Codification has become the single source for all authoritative GAAP recognized by the FASB to be applied for financial statements issued for periods ending after September 15, 2009. The Plan applied the Codification to the Annual Report on Form 11-K for the period ending December 31, 2009. The Codification does not change GAAP and did not have an effect on the Plan's accounting policies, net assets and changes in net assets available for benefits.

In 2009, the FASB issued guidance concerning fair value measurement which the Plan adopted. FSP FAS 157-2, Effective Date of FASB Statement No. 157, became effective on January 1, 2009 and concerned nonfinancial assets and liabilities measured at fair value. FSP FAS 157-4, Determining Fair Value When the Volume and Level of Activity for the Assets or Liability Have Significantly Decreased and Identifying Transactions that Are Not Orderly; FSP FAS 107-1 and APB 28-1, Interim Disclosures about Fair Value of Financial Impairments; and FSP FAS 115-2 and FAS 124-2, Recognition and Presentation of Other-than-temporary Impairments, became effective prospectively on April 1, 2009. This guidance is now referenced under ASC Topic 820, Fair Value Measurements and Disclosures and ASC Topic 320, Investments – Debt and Equity Securities. The guidance modified determination of fair value of financial instruments under distressed market conditions, revised the recognition and measurement requirements for other-than-temporary impairment losses on debt securities and expanded related disclosures. The Plan's adoption of this guidance did not have a material effect on the Plan's financial statements.

ASC Topic 820 was amended to require expanded disclosures related to 1) transfers in and out of Levels 1 and 2 fair value measurements, 2) presentation of gross versus net information in the roll

forward activity for Level 3 fair value measurements. In addition, the amendment clarified disclosures regarding disaggregation, inputs and valuation techniques. The amendment is effective for the Plan's 2010 financial statements, except for the change in the roll forward activity for Level 3 fair value measurements, which is effective for the Plan's 2011 financial statements. The adoption of this amendment is not expected to have a material effect on the financial statements of the Plan.

3. INVESTMENTS

The following table presents investments that individually represent five percent or more of the Plan's net assets available for benefits as of December 31, 2009 and 2008.

	<u>2009</u>	<u>2008</u>
Core Laboratories N.V. common stock	\$ 34,234,365	\$ 19,081,333
Amvescap Stable Value Fund	19,375,185	15,128,138
Washington Mutual Investors Fund - Class A	11,687,594	8,995,911
The Growth Fund of America - Class A	9,310,118	5,999,072
PIMCO Total Return Fund - Class A	8,725,092	7,397,993
EuroPacific Growth Fund - Class A	8,120,444	5,121,844
Franklin Balance Sheet Investment Fund - Class A	*	4,115,813

* Investment does not represent five percent or more of the Plan's net assets in the current year.

During the year ended December 31, 2009, the Plan's investments (including realized gains and losses on investments bought and sold, as well as held during the year) appreciated in fair value as follows:

Registered investment companies (mutual funds)	\$ 13,111,949
Core Laboratories N.V. common stock	<u>17,967,403</u>
Net appreciation in fair value of investments	<u>\$ 31,079,352</u>

4. FAIR VALUE MEASUREMENTS

The Plan categorizes its investments using a three tier fair value hierarchy that is dependent upon the various "inputs" used to determine the value of the Trust's investments. The three levels of the fair value hierarchy are described below:

- Level 1 includes observable inputs which reflect quoted prices for identical assets or liabilities in active markets at the measurement date.
- Level 2 includes observable inputs for assets or liabilities other than quoted prices included in Level 1 and it includes valuation techniques which use prices for similar assets and liabilities in active or inactive markets, inputs other than quoted prices that are observable for the asset or liability, or inputs that are derived principally from or corroborated by observable market data by correlation or other means.
- Level 3 includes unobservable inputs which reflect the reporting entity's estimates of the assumptions that market participants would use in pricing the asset or liability, including assumptions about risk.

The asset's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs. There have been no changes in the methodologies used at December 31, 2009 and 2008.

The following is a description of the valuation methods used for assets measured at fair value at December 31, 2009 and 2008.

Mutual funds: The fair value of these securities is based on observable market quotations and are priced on a daily basis at the close of business.

Common stocks: The fair value of these securities is based on observable market quotations and are priced on a daily basis at the close of business.

Money market funds: The fair value of these securities is based on observable market quotations and are priced on a daily basis at the close of business.

Common collective trusts: The fair value of the investments in the common collective trust is determined based on the fair value of the underlying securities within the fund, which represents the net asset value of the shares held by the Plan at year end.

Life insurance contracts: The fair value of these contracts is based on the cash surrender value of the contracts.

Participant Loans: Participant loans are valued at amortized cost, which approximates fair value.

The methods described above may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, while the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement.

The following table sets forth by level, within the fair value hierarchy, the Plan's assets measured at fair value on a recurring basis as of December 31, 2009 and 2008 (amounts in thousands of dollars):

	Total	Fair Value Measurement at December 31, 2009		
		Level 1	Level 2	Level 3
Assets:				
Mutual funds:				
Index Funds	\$ 4,645,813	\$ 4,645,813	\$ -	\$ -
Balanced Funds	14,867,305	14,867,305	-	-
Growth Funds	33,706,696	33,706,696	-	-
Fixed Income Funds	8,725,092	8,725,092	-	-
Money market	1,170	1,170	-	-
Common stock	34,234,365	34,234,365	-	-
Common collective trust	19,375,185	-	19,375,185	-
Participant loans	2,372,994	-	-	2,372,994
Life insurance contract	38,305	-	-	38,305
Total	<u>\$117,966,925</u>	<u>\$ 96,180,441</u>	<u>\$ 19,375,185</u>	<u>\$ 2,411,299</u>

	Total	Fair Value Measurement at December 31, 2008		
		Level 1	Level 2	Level 3
Assets:				
Mutual funds:				
Index Funds	\$ 3,239,216	\$ 3,239,216	\$ -	\$ -
Balanced Funds	10,974,004	10,974,004	-	-
Growth Funds	21,108,861	21,108,861	-	-
Fixed Income Funds	7,397,993	7,397,993	-	-
Money market	38,573	38,573	-	-
Company Common Stock	19,081,333	19,081,333	-	-
Common collective trust	15,128,138	-	15,128,138	-
Participant loans	2,145,208	-	-	2,145,208
Life insurance contract	38,305	-	-	38,305
Total	\$ 79,151,631	\$ 61,839,980	\$ 15,128,138	\$ 2,183,513

The following table presents the changes in fair value of the Plan's Level 3 investment assets:

	Life Insurance Contract	Participant loans	Total
Balance at January 1, 2009	\$ 38,305	\$2,145,208	\$2,183,513
Purchases, sales issuances and settlements (net)	-	227,786	227,786
Balance at December 31, 2009	<u>\$ 38,305</u>	<u>\$2,372,994</u>	<u>\$2,411,299</u>

Common Collective Trust

At December 31, 2009 and 2008, the Plan was invested in a fully benefit-responsive common collective trust with Invesco National Trust Company ("Invesco"). Invesco maintains the contributions in a general account within its Invesco Stable Value Trust (the "Trust").

The common collective trust is fully benefit-responsive, therefore contract value is the relevant measurement attribute for that portion of the net assets available for benefits attributable to the common collective trust. Contract value, as reported to the Plan by Invesco, represents contributions made under the contract, plus earnings, less participant withdrawals and administrative expenses.

The Trust invests primarily in investment contracts from high-quality insurance companies or banks that serve to substantially offset the price fluctuations in the underlying investments caused by movements in interest rates. The investment contract obligates the provider to maintain the "contract value" of the underlying investments. The contract value is generally equal to the principal amounts invested in the underlying investments, plus interest accrued at a crediting rate established under the contract, less any adjustments for withdrawals. The investment contract provides that the adjustments to the interest crediting rate will not result in a future interest crediting rate that is less than zero. This ensures that participants' principal and accrued interest will be protected.

There are no reserves against contract value for credit risk of the contract issuer or otherwise. The fair value of the common collective trust at December 31, 2009 and 2008 is \$19,375,185 and \$15,128,138, respectively. The crediting interest rate is based on a formula agreed upon with the issuer, but it may not be less than zero percent. The crediting interest rate for the year ended December 31, 2009 and 2008 was 3.89% and 3.34%, respectively. Such interest rates are reviewed on a quarterly basis. The average yield for the year ended December 31, 2009 and 2008 was 3.01% and 6.45%, respectively.

Certain events limit the ability of the Plan to transact at contract value with the issuer. Such events include the following: (1) amendments to Plan documents (including complete or partial plan termination or merger with another plan), (2) changes to the Plan's prohibition on competing

investment options or deletion of equity wash provisions, (3) bankruptcy of the Plan sponsor or other Plan sponsor events (for example, divestitures or spin-offs of a subsidiary) that cause a significant withdrawal from the plan or do not meet the contract issuer's underwriting criteria for issuance of a clone contract, (4) the failure of the trust to qualify for exemption from federal income taxes or any required prohibited transaction exemption under ERISA, or (5) the employer elects to withdraw from a contract in order to switch to a different investment provider. The Plan administrator does not believe that the occurrence of any such event, which would limit the Plan's ability to transact at contract value with participants, is probable.

5. RISKS AND UNCERTAINTIES

The Plan provides for various investments in a collective trust fund, mutual funds and Company Common Stock. Investment securities, in general, are exposed to various risks, such as interest rate, foreign exchange, credit and overall market volatility risks. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term and such changes could materially affect the amounts reported in the Statements of Net Assets Available for Benefits and the amounts reported in participant accounts.

6. FEDERAL INCOME TAX STATUS

The Plan received a favorable determination letter dated July 25, 2003, in which the Internal Revenue Service stated that the Plan, as then designed, was in compliance with the applicable requirements of the Code. The Plan has been amended since filing for this determination letter. However, the Plan administrator believes the Plan is currently designed and is being operated in compliance with the applicable requirements of the Code.

7. PARTY-IN-INTEREST TRANSACTIONS

The Plan provides for investment in shares of Company Common Stock and the Plan invests in participant loans. These transactions qualify as party-in-interest transactions. These transactions are exempt from the ERISA prohibited transaction rules; consequently, these transactions are permitted.

8. RECONCILIATION OF FINANCIAL STATEMENTS TO FORM 5500

The following is a reconciliation of net assets available for benefits as of December 31, 2009 and 2008, as reflected in these financial statements, to the amounts reflected in the Plan's Form 5500:

	<u>2009</u>	<u>2008</u>
Net assets available for benefits as reported in the financial statements	\$ 118,582,929	\$ 81,473,025
Adjustment from fair value to contract value for fully benefit-responsive investment contracts	<u>380,308</u>	<u>(725,564)</u>
Net assets available for benefits as reported in the Form 5500	<u>\$ 118,963,237</u>	<u>\$ 80,747,461</u>

The following is a reconciliation of the net increase in net assets available for benefits for the year ended December 31, 2009, as reflected in these financial statements, to the amounts reflected in the Plan's Form 5500:

Net increase in net assets available for benefits as reported in the financial statements	\$ 37,109,904
Prior year adjustment from fair value to contract value for fully benefit-responsive investment contracts	725,564
Current year adjustment from fair value to contract value for fully benefit-responsive investment contracts	<u>380,308</u>
Net increase in net assets available for benefits as reported in the Form 5500	<u>\$ 38,215,776</u>

9. SUBSEQUENT EVENTS

Effective January 4, 2010, the Plan's trustee changed from Charles Schwab Trust Company to Prudential Bank & Trust, FSB, and accordingly, all of the Plan's assets were transferred to the new trustee at that date.

SUPPLEMENTAL SCHEDULE

**CORE LABORATORIES
PROFIT SHARING AND RETIREMENT PLAN
SCHEDULE OF ASSETS (HELD AT END OF YEAR)
DECEMBER 31, 2009**

**Plan Number: 001
EIN: 76-0446294**

<u>(a)</u>	<u>(b) Identity of Issuer, Borrower, Lessor or Other Similar Party</u>	<u>(c) Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value</u>	<u>*** (e) Current Value</u>
**	Core Laboratories N.V. *	Common Stock - Core Laboratories N.V.	\$ 34,234,365
**	Invesco National Trust Company	Common Collective Trust - Amvescap Stable Value Fund	19,375,185
**	American Funds	Mutual Fund - Washington Mutual Investors Fund - Class A	11,687,594
**	American Funds	Mutual Fund - The Growth Fund of America - Class A	9,310,118
**	PIMCO Funds	Mutual Fund - PIMCO Total Return Fund Class A	8,725,092
**	American Funds	Mutual Fund - EuroPacific Growth Fund - Class A	8,120,444
	Franklin Templeton Investments	Mutual Fund - Franklin Balance Sheet Investment Fund - Class A	5,134,040
	The Vanguard Group	Mutual Fund - Vanguard 500 Index Fund	4,645,813
	Lord Abbett & Company	Mutual Fund - Lord Abbett Developing Growth Fund - Class A	4,347,929
	Lazard Funds	Mutual Fund - Lazard Emerging Markets	3,911,134
	Cohen & Steers Funds	Mutual Fund - Cohen & Steers Realty Shares	3,179,711
	Invesco AIM	Mutual Fund - AIM International Small Company Fund - Class A	2,883,031
	Participant Loans *	Interest rates ranging from 4.36% to 9.13% with varying maturity dates	2,372,994
	Conseco Life Insurance Company	Life Insurance Policies - Cash surrender value	38,305
	Federated Securities Corp.	Money Market Fund - Federated Capital Reserves	1,170
Total assets held for investment purposes			<u>\$ 117,966,925</u>

* Represents a party-in-interest transaction.

** Represents investments comprising at least 5% of net assets available for benefits.

*** Cost information is not presented because all investments are participant directed.

SIGNATURE

The Plan. Pursuant to the requirements of the Securities Exchange Act of 1934, the Plan administrator has duly caused this annual report to be signed on its behalf by the undersigned thereunto duly authorized.

CORE LABORATORIES
PROFIT SHARING AND RETIREMENT PLAN

By: Administrative Committee of the
Core Laboratories Profit Sharing and
Retirement Plan

Date: June 25, 2010

By: /s/ Richard L. Bergmark
Richard L. Bergmark
Administrative Committee Member,
Core Laboratories Profit Sharing and
Retirement Plan

INDEX TO EXHIBITS

Exhibit Number	Description
23.1	Exhibit 23.1 - Consent of Independent Registered Public Accounting Firm - Ham, Langston & Brezina L.L.P.

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statement on Form S-8 (No. 333-73772, 333-73774) of Core Laboratories N.V. of our report dated June 25, 2010 relating to the financial statements of Core Laboratories Profit Sharing and Retirement Plan, which appears in this Form 11-K.

/s/ Ham, Langston & Brezina L.L.P.

Houston, Texas
June 25, 2010