

CALAMOS GLOBAL TOTAL RETURN FUND
Form N-Q
March 23, 2010

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

**FORM N-Q
QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED
MANAGEMENT INVESTMENT COMPANIES**

INVESTMENT COMPANY ACT FILE NUMBER: 811-21547

EXACT NAME Calamos Global Total Return
OF Fund
REGISTRANT
AS SPECIFIED
IN CHARTER:

ADDRESS 2020 Calamos Court, Naperville
OF Illinois 60563
PRINCIPAL
EXECUTIVE
OFFICES:

NAME AND John P. Calamos Sr., President
ADDRESS Calamos Advisors LLC,
OF AGENT 2020 Calamos Court,
FOR Naperville, Illinois
SERVICE: 60563

REGISTRANT'S TELEPHONE NUMBER, INCLUDING AREA CODE: (630) 245-7200

DATE OF FISCAL YEAR END: October 31, 2010

DATE OF REPORTING PERIOD: January 31, 2010

ITEM 1. SCHEDULE OF INVESTMENTS JANUARY 31, 2010 (UNAUDITED)

Calamos Global Total Return Fund

SCHEDULE OF INVESTMENTS JANUARY 31, 2010 (UNAUDITED)

| PRINCIPAL AMOUNT | | VALUE |
|--------------------------------|----------------------------------------------------|--------------|
| CORPORATE BONDS (17.9%) | | |
| | <i>Consumer Discretionary (5.1%)</i> | |
| 1,000,000 | Expedia, Inc.~ 7.456%, 08/15/18 | \$ 1,096,250 |
| 700,000 | NetFlix, Inc.* 8.500%, 11/15/17 | 742,000 |
| 2,000,000 | Royal Caribbean Cruises, Ltd.µ 7.250%, 06/15/16 | 1,960,000 |
| 2,000,000 | Service Corp. International 7.500%, 04/01/27 | 1,860,000 |
| | | 5,658,250 |
| | <i>Consumer Staples (0.2%)</i> | |
| 230,000 | Del Monte Foods Company* 7.500%, 10/15/19 | 237,475 |
| | <i>Energy (2.2%)</i> | |
| 620,000 | Frontier Oil Corp.~ 8.500%, 09/15/16 | 651,000 |
| 1,000,000 | Petroplus Holdings, AG* 6.750%, 05/01/14 | 930,000 |
| 750,000 | Petróleo Brasileiro, SAµ 8.375%, 12/10/18 | 883,125 |
| | | 2,464,125 |
| | <i>Financials (0.8%)</i> | |
| 920,000 | Leucadia National Corp.µ 8.125%, 09/15/15 | 945,300 |
| | <i>Health Care (1.7%)</i> | |
| 1,800,000 | HCA, Inc. 9.250%, 11/15/16 | 1,903,500 |
| | <i>Industrials (2.0%)</i> | |

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| | | |
|-----------|-----------------------------------------------------|------------|
| 1,800,000 | H&E Equipment Service, Inc.µ 8.375%, 07/15/16 | 1,822,500 |
| 410,000 | SPX Corp.~ 7.625%, 12/15/14 | 427,425 |
| | | 2,249,925 |
| | Information Technology (0.1%) | |
| 110,000 | JDA Software Group, Inc.* 8.000%, 12/15/14 | 114,400 |
| | Materials (2.9%) | |
| 850,000 | Anglo American, PLC* 9.375%, 04/08/14 | 1,030,289 |
| 2,000,000 | Mosaic Company* 7.625%, 12/01/16 | 2,187,422 |
| | | 3,217,711 |
| | Telecommunication Services (2.2%) | |
| 1,700,000 | Frontier Communications Corp.~ 9.000%, 08/15/31 | 1,691,500 |
| 750,000 | Windstream Corp.~ 8.625%, 08/01/16 | 773,438 |
| | | 2,464,938 |
| | Utilities (0.7%) | |
| 1,000,000 | Energy Future Holdings Corp. 10.250%, 11/01/15 | 787,500 |
| | TOTAL CORPORATE BONDS (Cost \$19,399,806) | 20,043,124 |
| | CONVERTIBLE BONDS (26.9%) | |
| | Consumer Staples (1.2%) | |
| 1,350,000 | Archer-Daniels-Midland Company 0.875%, 02/15/14 | 1,377,000 |
| | Energy (5.2%) | |
| 1,200,000 | Acergy, SA 2.250%, 10/11/13 | 1,222,500 |
| 1,100,000 | Cameron International Corp. 2.500%, 06/15/26 | 1,365,375 |
| 1,790,000 | Chesapeake Energy Corp. 2.500%, 05/15/37 | 1,528,212 |
| 1,800,000 | Transocean, Ltd. - Series Cµ 1.500%, 12/15/37 | 1,732,500 |
| | | 5,848,587 |

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| | | |
|---------------|-----------------------------------------------------------|-----------|
| | <i>Financials (0.7%)</i> | |
| 700,000 | Leucadia National Corp. 3.750%, 04/15/14 | 812,875 |
| | <i>Health Care (3.6%)</i> | |
| 1,750,000 | Medtronic, Inc. 1.625%, 04/15/13 | 1,804,688 |
| 760,000 | Shire, PLC 2.750%, 05/09/14 | 760,295 |
| 1,200,000 | Teva Pharmaceutical Industries, Ltd.μ 0.250%, 02/01/26 | 1,486,500 |
| | | 4,051,483 |
| | <i>Industrials (0.7%)</i> | |
| 685,000 | Quanta Services, Inc. 3.750%, 04/30/26 | 710,688 |
| | <i>Information Technology (5.2%)</i> | |
| 4,200,000 EUR | Cap Gemini, SAμ 1.000%, 01/01/12 | 2,551,661 |
| 2,700,000 | Intel Corp.μ 2.950%, 12/15/35 | 2,561,625 |
| 630,000 | Symantec Corp. 1.000%, 06/15/13 | 679,612 |
| | | 5,792,898 |

See accompanying Notes to Schedule of Investments

SCHEDULE OF INVESTMENTS JANUARY 31, 2010 (UNAUDITED)

| PRINCIPAL AMOUNT | | VALUE |
|-----------------------------|----------------------------------------------------------------------|--------------|
| | <i>Materials (8.8%)</i> | |
| 1,000,000 | Anglo American, PLC 4.000%, 05/07/14 | \$ 1,540,500 |
| 1,300,000 | AngloGold Ashanti, Ltd. 3.500%, 05/22/14 | 1,417,000 |
| 2,420,000 | Newmont Mining Corp.µ 3.000%, 02/15/12 | 2,825,350 |
| 700,000 | Sino-Forest Corp.* 5.000%, 08/01/13 | 800,625 |
| 580,000 | 4.250%, 12/15/16 | 616,975 |
| 1,140,000 | Sterlite Industries, Ltd. 4.000%, 10/30/14 | 1,108,650 |
| 1,200,000 | Xstrata, PLC 4.000%, 08/14/17 | 1,518,000 |
| | | 9,827,100 |
| | <i>Telecommunication Services (1.5%)</i> | |
| 1,700,000 | NII Holdings, Inc.µ 2.750%, 08/15/25 | 1,710,625 |
| | TOTAL CONVERTIBLE BONDS (Cost \$29,519,260) | 30,131,256 |
| | U.S. GOVERNMENT AND AGENCY SECURITY (0.5%) | |
| 510,000 | United States Treasury Note~ 2.125%, 04/30/10 (Cost \$512,497) | 512,650 |
| | SOVEREIGN BONDS (4.2%) | |
| 250,000 BRL | Federal Republic of Brazil 10.000%, 01/01/12 | 1,298,552 |
| 1,500,000 AUD | Government of Australia 6.250%, 06/15/14 | 1,391,623 |
| 930,000 NZD | Government of New Zealand 6.000%, 04/15/15 | 676,832 |
| 8,000,000 NOK | | 1,388,838 |

Government of Norway
4.250%, 05/19/17

TOTAL SOVEREIGN BONDS

(Cost \$4,988,193)

4,755,845

**NUMBER OF
SHARES****VALUE****CONVERTIBLE PREFERRED STOCKS (9.0%)*****Consumer Staples (2.5%)***

| | | | |
|--------|--------------------------------|--------|-----------|
| 40,000 | Archer-Daniels-Midland Company | 6.250% | 1,716,000 |
| 7,800 | Bunge, Ltd. | 4.875% | 685,425 |
| 675 | | 5.125% | 402,047 |
| | | | 2,803,472 |

Financials (3.7%)

| | | | |
|--------|------------------------------------|--------|-----------|
| 17,000 | American International Group, Inc. | 8.500% | 157,930 |
| 2,700 | Bank of America Corp. | 7.250% | 2,443,500 |
| 1,600 | Wells Fargo & Company | 7.500% | 1,508,160 |
| | | | 4,109,590 |

Materials (2.8%)

| | | | |
|--------|----------|--------|-----------|
| 42,000 | Vale, SA | 6.750% | 3,171,220 |
|--------|----------|--------|-----------|

TOTAL CONVERTIBLE PREFERRED STOCKS

(Cost \$10,419,558)

10,084,282

**NUMBER OF
UNITS****VALUE****STRUCTURED EQUITY-LINKED SECURITIES (4.1%) +******Energy (2.8%)***

| | | | |
|--------|-----------------------------------------------|-------------------|---------|
| 20,500 | BNP Paribas, SA (ENSCO International, Inc.) | 12.000%, 07/26/10 | 823,485 |
| 7,700 | Deutsche Bank, AG (Apache Corp.) | 8.000%, 06/10/10 | 756,140 |
| 20,500 | Goldman Sachs Group, Inc. (Noble Corp.) | 12.000%, 06/30/10 | 837,220 |
| 10,900 | JPMorgan Chase & Company (Devon Energy Corp.) | 8.000%, 05/28/10 | 730,300 |

| | | | |
|------------------------------|--|------------------------------------------------------|--------------|
| | | | 3,147,145 |
| | | Health Care (0.7%) | |
| 20,000 | | Deutsche Bank, AG (Medtronic, Inc.) | |
| | | 11.000%, 05/27/10 | 753,200 |
| | | Materials (0.6%) | |
| 20,000 | | Credit Suisse Group (Barrick Gold Corp.) | |
| | | 12.000%, 04/21/10 | 708,600 |
| | | TOTAL STRUCTURED EQUITY-LINKED SECURITIES | |
| | | (Cost \$4,630,652) | 4,608,945 |
| NUMBER OF SHARES | | | VALUE |
| COMMON STOCKS (61.2%) | | | |
| | | Consumer Discretionary (4.1%) | |
| 90,000 CHF | | Swatch Group, AGμ | 4,526,147 |
| | | Consumer Staples (7.1%) | |
| 33,000 | | Coca-Cola Companyμ | 1,790,250 |
| 128,000 GBP | | Diageo, PLCμ | 2,151,444 |
| 55,000 CHF | | Nestlé, SAμ | 2,607,095 |
| 37,000 | | Walgreen Company | 1,333,850 |
| | | | 7,882,639 |

See accompanying Notes to Schedule of Investments

Calamos Global Total Return Fund

SCHEDULE OF INVESTMENTS JANUARY 31, 2010 (UNAUDITED)

| NUMBER OF SHARES | | VALUE |
|---------------------|----------------------------------------|--------------|
| | <i>Energy (12.3%)</i> | |
| 90,000 GBP | AMEC, PLC μ | \$ 1,084,632 |
| 380,000 GBP | BP, PLC μ | 3,545,419 |
| 21,000 | Cameron International Corp. μ # | 790,860 |
| 17,000 | Chevron Corp. μ | 1,226,040 |
| 70,000 | Halliburton Company μ | 2,044,700 |
| 73,000 CAD | Suncor Energy, Inc. | 2,304,868 |
| 21,000 EUR | Technip, SA | 1,435,581 |
| 72,000 NOK | TGS Nopec Geophysical Company, ASA# | 1,373,928 |
| | | 13,806,028 |
| | <i>Financials (5.6%)</i> | |
| 46,000 AUD | ASX, Ltd. | 1,383,240 |
| 70,300 GBP | Schroders, PLC | 1,389,293 |
| 350,000 SGD | Singapore Exchange, Ltd. μ | 1,974,111 |
| 65,000 GBP | Standard Chartered, PLC | 1,497,193 |
| | | 6,243,837 |
| | <i>Health Care (9.7%)</i> | |
| 29,000 | Alcon, Inc. μ | 4,515,590 |
| 39,000 | Johnson & Johnson μ | 2,451,540 |
| 24,000 | Medtronic, Inc. | 1,029,360 |
| 31,500 DKK | Novo Nordisk, A/S - Class B μ | 2,131,303 |
| 37,500 GBP | Shire, PLC | 742,693 |
| | | 10,870,486 |
| | <i>Industrials (3.2%)</i> | |
| 75,000 CHF | ABB, Ltd. μ # | 1,357,787 |
| 52,000 | General Electric Company μ | 836,160 |
| 16,000 EUR | Siemens, AG μ | 1,426,679 |
| | | 3,620,626 |

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| Information Technology (19.2%) | | |
|---------------------------------------|----------------------------|-----------|
| 720,000 GBP | ARM Holdings, PLC | 2,200,298 |
| 117,000 GBP | Autonomy Corp., PLCμ# | 2,898,309 |
| 37,000 JPY | Canon, Inc.μ | 1,446,259 |
| 130,000 | Dell, Inc.μ# | 1,677,000 |
| 38,000 | Infosys Technologies, Ltd. | 1,972,580 |
| 92,000 TWD | MediaTek, Inc. | 1,484,312 |
| 34,000 | Microsoft Corp.μ | 958,120 |
| 7,500 JPY | Nintendo Company, Ltd.μ | 2,091,017 |
| 175,000 EUR | Nokia, OYJμ | 2,401,365 |
| 100,000 BRL | Redecard, SA | 1,397,878 |
| 65,000 EUR | SAP, AGμ | 2,968,962 |

21,496,100

TOTAL COMMON STOCKS

(Cost \$76,046,867)

68,445,863

**NUMBER OF
CONTRACTS**

VALUE

PURCHASED OPTIONS (0.0%)#

Industrials (0.0%)

130 CHF ABB, Ltd.
Call, 06/18/10, Strike \$24.00
(Cost \$95,072)

\$ 2,328

**NUMBER OF
SHARES**

VALUE

SHORT TERM INVESTMENT (2.2%)

2,455,761 Fidelity Prime Money Market Fund - Institutional
Class
(Cost \$2,455,761)

2,455,761

TOTAL INVESTMENTS (126.0%)

(Cost \$148,067,666)

141,040,054

LIABILITIES, LESS OTHER ASSETS (-26.0%)

(29,121,268)

NET ASSETS APPLICABLE TO COMMON SHAREHOLDERS (100.0%)

\$ 111,918,786

**NUMBER OF
CONTRACTS**

VALUE

WRITTEN OPTIONS (-0.3%)#

Other (-0.3%)

iShares MSCI EAFE Index Fund

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| | | |
|-------|---------------------------------|-----------|
| 1,000 | Call, 06/19/10, Strike \$56.00 | (167,000) |
| 900 | Call, 04/17/10, Strike \$55.00 | (117,900) |
| | SPDR Trust Series 1 | |
| 250 | Call, 03/31/10, Strike \$115.00 | (19,125) |
| 100 | Call, 03/20/10, Strike \$115.00 | (5,500) |
| | TOTAL WRITTEN OPTIONS | |
| | (Premium \$435,861) | (309,525) |

NOTES TO SCHEDULE OF INVESTMENTS

- ~ Security, or portion of security, is segregated as collateral for written options and swaps aggregating a total value of \$5,152,263.
- * Securities issued and sold pursuant to a Rule 144A transaction are excepted from the registration requirement of the Securities Act of 1933, as amended. These securities may only be sold to qualified institutional buyers (QIBs), such as the fund. Any resale of these securities must generally be effected through a sale that is registered under the Act or otherwise exempted from such registration requirements. At January 31, 2010, the value of 144A securities that could not be exchanged to the registered form is \$7,986,834 or 7.1% of net assets applicable to common shareholders.
- μ Security, or portion of security, is held in a segregated account as collateral for note payable aggregating a total value of \$62,002,940.
- + Structured equity linked securities are designed to simulate the characteristics of the security in the parenthetical.
- # Non-income producing security.

See accompanying Notes to Schedule of Investments

SCHEDULE OF INVESTMENTS JANUARY 31, 2010 (UNAUDITED)

FOREIGN CURRENCY ABBREVIATIONS

| | |
|------------|------------------------|
| AUD | Australian Dollar |
| BRL | Brazilian Real |
| CAD | Canadian Dollar |
| CHF | Swiss Franc |
| DKK | Danish Krone |
| EUR | European Monetary Unit |
| GBP | British Pound Sterling |
| JPY | Japanese Yen |
| NOK | Norwegian Krone |
| NZD | New Zealand Dollar |
| SGD | Singapore Dollar |
| TWD | New Taiwanese Dollar |

Note: Value for securities denominated in foreign currencies is shown in U.S. dollars. The principal amount for such securities is shown in the respective foreign currency. The date shown on options represents the expiration date on the option contract. The option contract may be exercised at any date on or before the date shown.

See accompanying Notes to Schedule of Investments

Calamos Global Total Return Fund

INTEREST RATE SWAPS

| Counterparty | Fixed Rate (Fund Pays) | Floating Rate (Fund Receives) | Termination Date | Notional Amount | Unrealized Appreciation/ (Depreciation) |
|---------------------|-----------------------------------|------------------------------------------|-----------------------------|----------------------------|--------------------------------------------------------|
| BNP Paribas, SA | 2.5350% quarterly | 3 month LIBOR | 03/09/14 | \$ 12,000,000 | \$ (185,458) |
| BNP Paribas, SA | 2.0200% quarterly | 3 month LIBOR | 03/09/12 | 8,000,000 | (168,566) |
| BNP Paribas, SA | 1.8525% quarterly | 3 month LIBOR | 09/14/12 | 7,000,000 | (86,129) |
| | | | | | \$ (440,153) |

Calamos Global Total Return Fund

CURRENCY EXPOSURE JANUARY 31, 2010 (UNAUDITED)

| | Value | % of Total Investments |
|------------------------------------------|----------------|------------------------|
| US Dollar | \$ 85,600,882 | 60.8% |
| British Pound Sterling | 15,509,281 | 11.0% |
| European Monetary Unit | 10,784,248 | 7.7% |
| Swiss Franc | 8,493,357 | 6.0% |
| Japanese Yen | 3,537,276 | 2.5% |
| Australian Dollar | 2,774,863 | 2.0% |
| Norwegian Krone | 2,762,766 | 2.0% |
| Brazilian Real | 2,696,430 | 1.9% |
| Canadian Dollar | 2,304,868 | 1.6% |
| Danish Krone | 2,131,303 | 1.5% |
| Singapore Dollar | 1,974,111 | 1.4% |
| New Taiwanese Dollar | 1,484,312 | 1.1% |
| New Zealand Dollar | 676,832 | 0.5% |
| Total Investments Net of Written Options | \$ 140,730,529 | 100.0% |

Currency exposure may vary over time.

NOTE 1 ORGANIZATION AND SIGNIFICANT ACCOUNTING POLICIES

Organization. Calamos Global Total Return (the Fund) was organized as a Delaware statutory trust on March 30, 2004 and is registered under the Investment Company Act of 1940 (the 1940 Act) as a diversified, closed-end management investment company. The Fund commenced operations on October 27, 2005. The Fund's investment objective is to provide total return through a combination of capital appreciation and current income.

Fund Valuation. The valuation of the Fund's securities is in accordance with policies and procedures adopted by and under the ultimate supervision of the board of trustees.

Fund securities that are traded on U.S. securities exchanges, except option securities, are valued at the last current reported sales price at the time a Fund determines its net asset value (NAV). Securities traded in the over-the-counter market and quoted on The NASDAQ Stock Market are valued at the NASDAQ Official Closing Price, as determined by NASDAQ, or lacking a NASDAQ Official Closing Price, the last current reported sale price on NASDAQ at the time the Fund determines its NAV.

When a last sale or closing price is not available, equity securities, other than option securities, that are traded on a U.S. securities exchange and other equity securities traded in the over-the-counter market are valued at the mean between the most recent bid and asked quotations in accordance with guidelines adopted by the board of trustees. Each option security traded on a U.S. securities exchange is valued at the mid-point of the consolidated bid/ask quote for the option security, also in accordance with guidelines adopted by the board of trustees. Each over-the-counter option that is not traded through the Options Clearing Corporation is valued based on a quotation provided by the counterparty to such option under the ultimate supervision of the board of trustees.

Fixed income securities are generally traded in the over-the-counter market and are valued by independent pricing services or by dealers who make markets in such securities. Valuations of fixed income securities consider yield or price of bonds of comparable quality, coupon rate, maturity, type of issue, trading characteristics and other market data and do not rely exclusively upon exchange or over-the-counter prices.

Trading on European and Far Eastern exchanges and over-the-counter markets is typically completed at various times before the close of business on each day on which the New York Stock Exchange (NYSE) is open. Each security trading on these exchanges or over-the-counter markets may be valued utilizing a systematic fair valuation model provided by an independent pricing service approved by the board of trustees. The valuation of each security that meets certain criteria in relation to the valuation model is systematically adjusted to reflect the impact of movement in the U.S. market after the foreign markets close. Securities that do not meet the criteria, or that are principally traded in other foreign markets, are valued as of the last reported sale price at the time the Fund determines its NAV, or when reliable market prices or quotations are not readily available, at the mean between the most recent bid and asked quotations as of the close of the appropriate exchange or other designated time. Trading of foreign securities may not take place on every NYSE business day. In addition, trading may take place in various foreign markets on Saturdays or on other days when the NYSE is not open and on which the Fund's NAV is not calculated.

If the pricing committee determines that the valuation of a security in accordance with the methods described above is not reflective of a fair value for such security, the security is valued at a fair value by the pricing committee, under the ultimate supervision of the board of trustees, following the guidelines and/or procedures adopted by the board of trustees.

The Fund also may use fair value pricing, pursuant to guidelines adopted by the board of trustees and under the ultimate supervision of the board of trustees, if trading in the security is halted or if the value of a security it holds is materially affected by events occurring before the Fund's pricing time but after the close of the primary market or

exchange on which the security is listed. Those procedures may utilize valuations furnished by pricing services approved by the board of trustees, which may be based on market transactions for comparable securities and various relationships between securities that are generally recognized by institutional traders, a computerized matrix system, or appraisals derived from information concerning the securities or similar securities received from recognized dealers in those securities.

When fair value pricing of securities is employed, the prices of securities used by a Fund to calculate its NAV may differ from market quotations or official closing prices. In light of the judgment involved in fair valuations, there can be no assurance that a fair value assigned to a particular security is accurate.

Investment Transactions. Investment transactions are recorded on a trade date basis as of January 31, 2010.

Foreign Currency Translation. Values of investments and other assets and liabilities denominated in foreign currencies are translated into U.S. dollars using a rate quoted by a major bank or dealer in the particular currency market, as reported by a recognized quotation dissemination service.

Option Transactions. For hedging and investment purposes, the Fund may purchase or write (sell) put and call options. One of the risks associated with purchasing an option is that the Fund pays a premium whether or not the option is exercised. Additionally, the Fund bears the risk of loss of premium and change in value should the counterparty not perform under the contract. The Fund as writer of an option bears the market risk of an unfavorable change in the price of the security underlying the written option.

Forward Foreign Currency Contracts. The Fund may engage in portfolio hedging with respect to changes in currency exchange rates by entering into foreign currency contracts to purchase or sell currencies. A forward foreign currency contract is a commitment to purchase or sell a foreign currency at a future date at a negotiated forward rate. Risks associated with such contracts include, among other things, movement in the value of the foreign currency relative to the U.S. dollar and the ability of the counterparty to perform. The net unrealized gain, if any, represents the credit risk to the Fund on a forward foreign currency contract. The contracts are valued daily at forward foreign exchange rates. There were no open forward currency contracts at January 31, 2010.

NOTE 2 INVESTMENTS

The following information is presented on a federal income tax basis as of January 31, 2010. Differences between the cost basis under U.S. generally accepted accounting principles and federal income tax purposes are primarily due to temporary differences.

The cost basis of investments for federal income tax purposes at January 31, 2010 was as follows:

| | |
|--------------------------------------------|----------------|
| Cost basis of Investments | \$ 148,423,907 |
| Gross unrealized appreciation | 5,250,034 |
| Gross unrealized depreciation | (12,633,887) |
| Net unrealized appreciation (depreciation) | \$ (7,383,853) |

NOTE 3 BORROWINGS

The Fund, with the approval of its board of trustees, including its independent trustees, has entered into a financing package that includes a Committed Facility Agreement (the Agreement) with BNP Paribas Prime Brokerage, Inc. (as successor to Bank of America N.A.) (BNP) that allows the Fund to borrow up to an initial limit of \$59,000,000 and a Lending Agreement, as defined below. Borrowings under the Agreement are secured by assets of the Fund that are held with the Fund's custodian in a separate account (the pledged collateral). Interest is charged at the quarterly LIBOR (London Inter-bank Offered Rate) plus .95% on the amount borrowed and .85% on the undrawn balance. For the

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period ended January 31, 2010, the average borrowings under the Agreement and the average interest rate were \$30,000,000 and 1.24%, respectively. As of January 31, 2010, the amount of such outstanding borrowings is \$30,000,000. The interest rate applicable to the borrowings on January 31, 2010 was 1.20%.

The Lending Agreement is a separate side-agreement between the Fund and BNP pursuant to which BNP may borrow a portion of the pledged collateral (the Lent Securities) in an amount not to exceed the outstanding borrowings owed by the Fund to BNP under the Agreement. The Lending Agreement is intended to permit the Fund to significantly reduce the cost of its borrowings under the Agreement. BNP may re-register the Lent Securities in its own name or in another name other than the Fund, and may pledge, re-pledge, sell, lend or otherwise transfer or use the Lent Securities with all attendant rights of ownership. (It is the Fund's understanding that BNP will perform due diligence to determine the creditworthiness of any party that borrows

Lent Securities from BNP.) The Fund may designate any security within the pledged collateral as ineligible to be a Lent Security, provided there are eligible securities within the pledged collateral in an amount equal to the outstanding borrowing owed by the Fund. During the period in which the Lent Securities are outstanding, BNP must remit payment to the Fund equal to the amount of all dividends, interest or other distributions earned or made by the Lent Securities.

Under the terms of the Lending Agreement, the Lent Securities are marked to market daily, and if the value of the Lent Securities exceeds the value of the then-outstanding borrowings owed by the Fund to BNP under the Agreement (the Current Borrowings), BNP must, on that day, either (1) return Lent Securities to the Fund's custodian in an amount sufficient to cause the value of the outstanding Lent Securities to equal the Current Borrowings; or (2) post cash collateral with the Fund's custodian equal to the difference between the value of the Lent Securities and the value of the Current Borrowings. If BNP fails to perform either of these actions as required, the Fund will recall securities, as discussed below, in an amount sufficient to cause the value of the outstanding Lent Securities to equal the Current Borrowings. The Fund can recall any of the Lent Securities and BNP shall, to the extent commercially possible, return such security or equivalent security to the Fund's custodian no later than three business days after such request. If the Fund recalls a Lent Security pursuant to the Lending Agreement, and BNP fails to return the Lent Securities or equivalent securities in a timely fashion, BNP shall remain liable to the Fund's custodian for the ultimate delivery of such Lent Securities, or equivalent securities, and for any buy-in costs that the executing broker for the sales transaction may impose with respect to the failure to deliver. The Fund shall also have the right to apply and set-off an amount equal to one hundred percent (100%) of the then-current fair value of such Lent Securities against the Current Borrowings.

NOTE 4 INTEREST RATE SWAPS

The Fund may engage in interest rate swaps primarily to manage duration and yield curve risk, or as alternatives to direct investments, or to hedge the interest rate risk on the fund's borrowings (see Note 3 Borrowings). An interest rate swap is a contract that involves the exchange of one type of interest rate for another type of interest rate. Three main types of interest rate swaps are coupon swaps (fixed rate to floating rate in the same currency); basis swaps (one floating rate index to another floating rate index in the same currency); and cross-currency interest rate swaps (fixed rate in one currency to floating rate in another). In the case of a coupon swap, a Fund may agree with a counterparty that the Fund will pay a fixed rate (multiplied by a notional amount) while the counterparty will pay a floating rate multiplied by the same notional amount. If interest rates rise, resulting in a diminution in the value of the Fund's portfolio, the Fund would receive payments under the swap that would offset, in whole or in part, such diminution in value; if interest rates fall, the Fund would likely lose money on the swap transaction. Swap agreements are stated at fair value. Notional principal amounts are used to express the extent of involvement in these transactions, but the amounts potentially subject to credit risk are much smaller. In connection with these contracts, securities may be identified as collateral in accordance with the terms of the respective swap contracts in the event of default or bankruptcy.

NOTE 5 STRUCTURED EQUITY LINKED SECURITIES

The Fund may also invest in structured equity-linked securities created by third parties, typically investment banks. Structured equity linked securities created by such parties may be designed to simulate the characteristics of traditional convertible securities or may be designed to alter or emphasize a particular feature. Traditional convertible securities typically offer stable cash flows with the ability to participate in capital appreciation of the underlying common stock. Because traditional convertible securities are exercisable at the option of the holder, the holder is protected against downside risk. Structured equity-linked securities may alter these characteristics by offering enhanced yields in exchange for reduced capital appreciation or less downside protection, or any combination of these features. Structured equity-linked instruments may include structured notes, equity-linked notes, mandatory

convertibles and combinations of securities and instruments, such as a debt instrument combined with a forward contract.

NOTE 7 VALUATIONS

Various inputs are used to determine the value of the Fund's investments. These inputs are categorized into three broad levels as follows:

Level 1 assets and liabilities use inputs from unadjusted quoted prices from active markets (including securities actively traded on a securities exchange).

Level 2 assets and liabilities reflect inputs other than quoted prices, but use observable market data (including quoted prices of similar securities, interest rates, credit risk, etc.).

Level 3 assets and liabilities are valued using unobservable inputs (including the Fund's own judgments about assumptions market participants would use in determining fair value).

The following is a summary of the inputs used in valuing the Fund's holdings at fair value:

| Valuation Inputs | Value of Investment Securities | Other Financial Instruments |
|---------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Level 1 Quoted Prices | | |
| Common Stocks | \$ 24,328,796 | \$ |
| Convertible Preferred Stocks | 8,996,810 | |
| Purchased Options | 2,328 | |
| Written Options | | (309,525) |
| Short Term Investments | 2,455,761 | |
| Level 2 Other significant observable inputs | | |
| Common Stocks | 44,117,067 | |
| Convertible Bonds | 30,131,256 | |
| Corporate Bonds | 20,043,124 | |
| U.S. Government and Agency Security | 512,650 | |
| Sovereign Bonds | 4,755,845 | |
| Convertible Preferred Stocks | 1,087,472 | |
| Structured Equity-Linked Securities | 4,608,945 | |
| Interest Rate Swaps | | (440,153) |
| Total | \$ 141,040,054 | \$ (749,678) |

ITEM 2. CONTROLS AND PROCEDURES.

a) The registrant's principal executive officer and principal financial officer have evaluated the registrant's disclosure controls and procedures within 90 days of this filing and have concluded that the registrant's disclosure controls and procedures were effective, as of that date, in ensuring that information required to be disclosed by the registrant in this Form N-Q was recorded, processed, summarized, and reported timely.

b) There were no changes in the registrant's internal controls over financial reporting (as defined in Rule 30a-3(d) under the Investment Company Act of 1940) that occurred during the registrant's last fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.

ITEM 3. EXHIBITS.

(a) Certification of Principal Executive Officer.

(b) Certification of Principal Financial Officer.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Calamos Global Total Return Fund

By: /s/ John P. Calamos, Sr.

Name: John P. Calamos, Sr.
Title: Principal Executive Officer
Date: March 23, 2010

By: /s/ Nimish S. Bhatt

Name: Nimish S. Bhatt
Title: Principal Financial Officer
Date: March 23, 2010

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Calamos Global Total Return Fund

By: /s/ John P. Calamos, Sr.

Name: John P. Calamos, Sr.
Title: Principal Executive Officer
Date: March 23, 2010

By: /s/ Nimish S. Bhatt

Name: Nimish S. Bhatt
Title: Principal Financial Officer
Date: March 23, 2010