Madison Strategic Sector Premium Fund Form N-Q May 23, 2011

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT COMPANY

Investment Company Act file number 811-21713

Madison Strategic Sector Premium Fund (Exact name of registrant as specified in charter)

550 Science Drive, Madison, WI 53711 (Address of principal executive offices)(Zip code)

Pamela M. Krill

Madison/Mosaic Legal and Compliance Department
550 Science Drive
Madison, WI 53711
(Name and address of agent for service)

Registrant's telephone number, including area code: 608-274-0300

Date of fiscal year end: December 31

Date of reporting period: March 31, 2011

Form N-Q is to be used by management investment companies, other than small business investment companies registered on Form N-5 (ss 239.24 and 274.5 of this chapter), to file reports with the Commission, not later than 60 days after the close of the first and third fiscal quarters, pursuant to rule 30b1-5 under the Investment Company Act of 1940 (17 CFR 270.30b1-5). The Commission may use the information provided on Form N-Q in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-Q, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-Q unless the Form displays a currently valid Office of Management and Budget ("OMB") control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to the Secretary, Securities and Exchange Commission, 100 F Street, NE, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. s 3507.

Item 1. Schedule of Investments.

| COMMON STOCK - 75.1% | SharesValue (Note 1) | |
|--|---------------------------------------|-------------|
| G | | |
| Consumer Discretionary - 15.2% | 00.000 | Ф1 071 200 |
| American Eagle Outfitters Inc. | 80,000 | \$1,271,200 |
| Best Buy Co. Inc. | 70,000 | 2,010,400 |
| Garmin Ltd. | 19,600 | 663,656 |
| Home Depot Inc. | 21,900 | 811,614 |
| Kohl's Corp. | 21,500 | 1,140,360 |
| Lowe's Cos. Inc. | 110,000 | 2,907,300 |
| Staples Inc. | 80,000 | 1,553,600 |
| Target Corp. | 40,000 | 2,000,400 |
| Energy 10.5% | | 12,358,530 |
| Energy - 10.5% Apache Corp. | 12 400 | 1 754 220 |
| EOG Resources Inc. | 13,400 | 1,754,328 |
| | 19,000 3,592 | 2,251,690 |
| Exxon Mobil Corp. | · · · · · · · · · · · · · · · · · · · | 302,195 |
| Noble Corp.* | 30,000 | 1,368,600 |
| Schlumberger Ltd. | 22,000 | 2,051,720 |
| Southwestern Energy Co.* | 20,000 | 859,400 |
| Financials - 10.7% | | 8,587,933 |
| American Express Co. | 54,000 | 2,440,800 |
| Bank of America Corp. | 27,000 | 1,692,910 |
| Morgan Stanley | 80,000 | 2,185,600 |
| State Street Corp. | 40,000 | 1,797,600 |
| Wells Fargo & Co. | 20,000 | 634,000 |
| wens raigo & co. | 20,000 | 8,750,910 |
| Health Care - 19.0% | | 0,750,510 |
| Celgene Corp.* | 50,000 | 2,876,500 |
| Gilead Sciences Inc.* | 55,000 | 2,334,200 |
| Medtronic Inc. | 35,000 | 1,377,250 |
| Mylan Inc./PA* | 70,000 | 1,586,900 |
| Pfizer Inc. | 69,800 | 1,417,638 |
| Teva Pharmaceutical Industries Ltd., ADR | 45,000 | 2,257,650 |
| UnitedHealth Group Inc. | 53,200 | 2,404,640 |
| Zimmer Holdings Inc.* | 21,000 | 1,271,130 |
| | • | 15,525,908 |
| Information Technology - 19.7% | | |
| Adobe Systems Inc.* | 55,000 | 1,823,800 |
| Applied Materials Inc. | 60,000 | 937,200 |
| Cisco Systems Inc. | 130,000 | 2,229,500 |
| eBay Inc.* | 30,000 | 931,200 |
| EMC Corp./Massachusetts* | 30,000 | 796,500 |
| Flextronics International Ltd.* | 184,900 | 1,381,203 |
| Google Inc., Class A* | 4,000 | 2,344,840 |
| . | • | |

| Microsoft Corp. Symantec Corp.* Visa Inc., Class A Yahoo! Inc.* | 70,000 25,000 35,000 50,000 | 1,775,200 463,500 2,576,700 832,500 16,092,143 |
|---|--------------------------------------|--|
| Total Common Stock (Cost \$61,244,555) | | \$61,315,424 |
| U.S. GOVERNMENT AND AGENCY OB | LIGATIONS - 0.7% | |
| U.S. Treasury Note - 0.7% | | |
| 0.875%, 4/30/11 | 550,000 | 550,360 |
| Total U.S. Government and Agency | | 550.260 |
| Obligations | | 550,360 |
| (Cost \$550,360) | | |
| | | |
| INVESTMENT COMPANIES - 4.3% | 40.000 | |
| iPATH S&P 500 VIX Short-Term Futures | 40,000 | 1,174,400 |
| ETN* Powershames COO Travet Society 1 | 40,000 | 2 207 200 |
| Powershares QQQ Trust Series 1 Total Investment Companies (Cost | 40,000 | 2,297,200 |
| \$3,707,857) | | 3,471,600 |
| ψ5,707,037) | | |
| Repurchase Agreement - 24.8% | | |
| With U.S. Bank National Association issued | | |
| 3/31/11 at | | |
| 0.01%, due 4/1/11, collateralized by | | |
| \$20,638,845 in | | |
| Freddie Mac MBS #G11649 due | | |
| 2/1/20. Proceeds | | |
| at maturity are \$20,234,007 (Cost \$20,234,002) | | 20,234,002 |
| TOTAL INVESTMENTS - 104.9% (Cost | | 05 551 206 |
| \$85,736,774) | | 85,571,386 |
| NET OTHER ASSETS AND LIABILITIES - | | 39,873 (3,995,546) |
| Total Call Options Written - (4.9%) | | (3,993,340) |
| TOTAL ASSETS - 100% | | \$81,615,713 |
| *Non-income producing | | |
| ADR-American Depository Receipt | | |

ADR-American Depository Receipt ETN-Exchange Traded Note

| | Contracts | | Strike | |
|--------------------------------|-----------|------------|--------|--------------|
| Call Options Written | Ex | piration | Price | Market Value |
| Adobe Systems Inc. | 300 | April 2011 | 33.00 | 24,600 |
| Adobe Systems Inc. | 250 | July 2011 | 34.00 | 45,500 |
| American Eagle Outfitters Inc. | 276 | May 2011 | 16.50 | 17,250 |

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| American Feels Outfitters Inc | 500 | August 2011 | 16.00 | 70,000 |
|--|-----|---------------------------|--------|-------------|
| American Eagle Outfitters Inc. American Express Co. | 240 | August 2011 April 2011 | 44.00 | 37,680 |
| American Express Co. American Express Co. | 300 | July 2011 | 47.50 | 39,300 |
| Apache Corp. | 134 | July 2011 | 110.00 | 307,195 |
| Applied Materials Inc. | 200 | July 2011 | 13.00 | 56,800 |
| Applied Materials Inc. | 200 | July 2011 | 14.00 | 40,400 |
| Applied Materials Inc. | 200 | July 2011 | 16.00 | 15,700 |
| Bank of America Corp. | 600 | April 2011 | 14.00 | 6,900 |
| Bank of America Corp. | 370 | August 2011 | 15.00 | 15,355 |
| Celgene Corp. | 100 | April 2011 | 60.00 | 2,300 |
| Celgene Corp. | 200 | July 2011 | 57.50 | 66,000 |
| eBay Inc. | 300 | April 2011 | 26.00 | 152,250 |
| EMC Corp./Massachusetts | 300 | April 2011 | 22.00 | 136,500 |
| EOG Resources Inc. | 190 | April 2011 | 95.00 | 454,100 |
| Exxon Mobil Corp. | 8 | April 2011 | 72.50 | 9,400 |
| Flextronics International Ltd. | 500 | January 2012 | 10.00 | 12,750 |
| Garmin Ltd. | 196 | April 2011 | 32.00 | 39,788 |
| Gilead Sciences Inc. | 300 | May 2011 | 39.00 | 121,500 |
| Gilead Sciences Inc. | 250 | August 2011 | 39.00 | 123,125 |
| Home Depot Inc. | 219 | May 2011 | 32.00 | 114,428 |
| iPATH S&P 500 VIX Short-Term Futures ETN | 200 | May 2011 | 35.00 | 26,700 |
| Kohl's Corp. | 115 | July 2011 | 52.50 | 33,350 |
| Lowe's Cos. Inc. | 300 | April 2011 | 23.00 | 105,000 |
| Lowe's Cos. Inc. | 600 | July 2011 | 26.00 | 99,900 |
| Medtronic Inc. | 200 | May 2011 | 38.00 | 38,700 |
| Morgan Stanley | 400 | July 2011 | 28.00 | 50,200 |
| Morgan Stanley | 400 | July 2011 | 30.00 | 22,200 |
| Mylan Inc./PA | 200 | April 2011 | 21.00 | 34,500 |
| Mylan Inc./PA | 500 | July 2011 | 21.00 | 118,250 |
| Noble Corp. | 300 | June 2011 | 38.00 | 246,750 |
| Pfizer Inc. | 300 | June 2011 | 19.00 | 47,250 |
| DC I | 300 | September | 20.00 | 20.100 |
| Pfizer Inc. | 200 | 2011 | 20.00 | 38,100 |
| Powershares QQQ Trust Series 1 | 308 | April 2011 | 55.00 | 81,620 |
| Schlumberger Ltd. | 220 | May 2011 | 80.00 | 306,900 |
| Southwestern Energy Co. | 200 | June 2011 | 39.00 | 101,500 |
| State Street Corp. | 200 | August 2011 | 45.00 | 57,800 |
| Symantec Corp. | 250 | July 2011 | 18.00 | 37,375 |
| Teva Pharmaceutical Industries Ltd. | 200 | June 2011 | 52.50 | 21,700 |
| UnitedHealth Group Inc. | 300 | June 2011 | 37.00 | 254,250 |
| UnitedHealth Group Inc. | 232 | June 2011 | 43.00 | 78,880 |
| Visa Inc. | 200 | June 2011 | 72.50 | 85,500 |
| Wells Fargo & Co. | 200 | April 2011 | 31.00 | 21,000 |
| Yahoo! Inc. | 500 | July 2011 | 18.00 | 41,750 |
| Zimmer Holdings Inc. | 210 | June 2011 | 55.00 | 137,550 |
| Total Call Options Written (Promiums received \$2,462,003) | | | | \$3,995,546 |
| (Premiums received \$2,462,993) | | | | |

^{1.} Portfolio Valuation: Securities traded on a national securities exchange are valued at their closing sale price except for securities traded on NASDAQ which are valued at the NASDAQ official closing price

("NOCP") and options which are valued at the mean between the best bid and best ask price across all option exchanges. Repurchase agreements and other securities having maturities of 60 days or less are valued at amortized cost, which approximates market value. Securities having longer maturities, for which quotations are readily available, are valued at the mean between their closing bid and ask prices. Securities for which market quotations are not readily available are valued at their fair value as determined in good faith under procedures approved by the Board of Trustees.

The Fund has adopted the Financial Accounting Standards Board ("FASB") applicable guidance on fair value measurements. Fair value is defined as the price that the Fund would receive upon selling an investment in a timely transaction to an independent buyer in the principal or most advantageous market of the investment. A three-tier hierarchy is used to maximize the use of observable market data "inputs" and minimize the use of unobservable "inputs" and to establish classification of fair value measurements for disclosure purposes. Inputs refer broadly to the assumptions that market participants would use in pricing the asset or liability, including assumptions about risk (for example, the risk inherent in a particular valuation technique used to measure fair value including such a pricing model and/or the risk inherent in the inputs to the valuation technique). Inputs may be observable or unobservable. Observable inputs are inputs that reflect the assumptions market participants would use in pricing the asset or liability developed based on market data obtained from sources independent of the reporting entity. Unobservable inputs are inputs that reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset or liability developed based on the best information available in the circumstances. The three-tier hierarchy of inputs is summarized in the three broad Levels listed below:

Level 1 –quoted prices in active markets for identical investments

Level 2 – other significant observable inputs (including quoted prices for similar investments, interest rate volatilities, prepayment speeds, credit risk, benchmark yields, transactions, bids, offers, new issues, spreads, and other relationships observed in the markets among comparable securities, underlying equity of the issuer, and proprietary pricing models such as yield measures calculated using factors such as cash flows, financial or collateral performance and other reference data etc.)

Level 3 – significant unobservable inputs (including the Fund's own assumptions in determining the fair value of investments)

The valuation techniques used by the funds to measure fair value for the period ended March 31, 2011 maximized the use of observable inputs and minimized the use of unobservable inputs. At March 31, 2011 and for the six-month period then ended, the Fund held no Level 3 securities.

The following is a summary of the inputs used as of March 31, 2011 in valuing the funds' investments carried at fair value:

| | | | Significant | | |
|---------------------------------------|-----------|---------------|-------------|--------------|------------|
| | Quote | ed Prices in | Other | Significant | |
| | Active | Markets for | Observable | Unobservable | 2 |
| | Identica | l Investments | Inputs | Inputs | Value at |
| Fund | (Level 1) | | (Level 2) | (Level 3) | 3/31/2011 |
| Madison Strategic Sector Premium Fund | | | | | |
| Assets: | | | | | |
| | | | | | \$ |
| Common Stocks | \$ | 61,315,424 | \$ - | \$ - | 61,315,424 |
| Investment | | | | | |
| Companies | | 3,471,600 | | | 3,471,600 |
| U.S. Government an | d Agency | Obligations | 550,360 | | 550,360 |

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| Repurchase | | | | |
|-----------------|------------------|-----------------|---|--------------|
| Agreement | | 20,234,002 | | 20,234,002 |
| | \$ 64,787,024 | \$20,784,362 \$ | - | \$85,571,386 |
| Liabilities: | | | | |
| Written Options | \$ 3,995,546 | \$ - \$ | - | \$ 3,995,546 |
| • | \$ 3,995,546 | \$ - \$ | - | \$ 3,995,546 |

Please see the Portfolio of Investments for the listing of all securities within each category.

The Fund has adopted the Accounting Standard Update, Fair Value Measurements and Disclosures; Improving Disclosures about Fair Value Measurements which provides guidance on how investment assets and liabilities are to be valued and disclosed. Specifically, the amendment requires reporting entities to disclose i) the input and valuation techniques used to measure fair value for both recurring and nonrecurring fair value measurements, for Level 2 or Level 3 positions, ii) transfers between all levels (including Level 1 and Level 2) will be required to be disclosed on a gross basis (i.e. transfers out must be disclosed separately from transfers in) as well as the reason(s) for the transfer and iii) purchases, sales, issuances and settlements must be shown on a gross basis in the Level 3 rollforward rather than as one net number. The effective date of the amendment is for interim and annual periods beginning after December 15, 2009, however, the requirement to provide the Level 3 activity for purchases, sales, issuance and settlements on a gross basis will be effective for interim and annual period beginning after December 15, 2010. There were no transfers between classification levels during the period ended March 31, 2011.

Derivatives: In March 2008, FASB issued guidance intended to enhance financial statement disclosures for derivative instruments and hedging activities and enable investors to understand: a) how and why a fund uses derivative investments, b) how derivative instruments and related hedge fund items are accounted for, and c) how derivative instruments and related hedge fund items affect a fund's financial position, results of operations and cash flows

The following table presents the types of derivatives in the Madison Strategic Sector Premium Fund (i.e. MSP) and their effect:

| | | | Liability | |
|------------------|----------------------|------------|-------------------------|-------------|
| | Asset Derivatives | | Derivatives | |
| Derivatives not | Statement of Assets | | | |
| accounted | and | Fair Value | Statement of Assets and | Fair Value |
| for as hedging | | | | |
| instruments | Liabilities Location | | Liabilities Location | |
| Equity contracts | | \$- | Options Written | \$3,995,546 |

The following table presents the effect of Derivative Instruments on the Statement of Operations for the period ended March 31, 2011

Derivatives not

accounted Change in Unrealized

for as hedging

instruments Realized Gain on Derivatives: Depreciation on Derivatives 1,282,604

Equity contracts 770,188

Item 2. Controls and Procedures.

- (a) The registrant's principal executive officer and principal financial officer determined that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940 (the "Act") are effective, based on their evaluation of these controls and procedures within 90 days of the date of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the Act. There were no significant changes in the Trust's internal controls or in other factors that could significantly affect these controls subsequent to the date of their evaluation. The officers identified no significant deficiencies or material weaknesses.
- (b) There were no changes in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the Act) 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.

Certifications of principal executive and principal financial officers as required by Rule 30a-2(a) under the Act.

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.

Madison Strategic Sector Premium Fund

By: (signature)

W. Richard Mason, CCO

Date: May 19, 2011

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

By: (signature)

Katherine L. Frank, Chief Executive Officer

Date: May 19, 2011

By: (signature)

Greg Hoppe, Principal Financial Officer

Date: May 19, 2011