

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
811-21681

Guggenheim Enhanced Equity Income Fund
(Exact name of registrant as specified in charter)

2455 Corporate West Drive Lisle, IL 60532
(Address of principal executive offices) (Zip code)

Kevin M. Robinson
2455 Corporate West Drive

Lisle, IL 60532
(Name and address of agent for service)

Registrant's telephone number, including area code: (630) 505-3700

Date of fiscal year end: December 31

Date of reporting period: January 1, 2011 - 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 (§§ 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 20549-1090. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. § 3507.

Item 1. Schedule of Investments.
Attached hereto.

GPM Guggenheim Enhanced Equity Income Fund
Portfolio of Investments
March 31, 2011 (unaudited)

Number of Shares	Description	Value
	Long-Term Investments - 134.1%	
	Exchange Traded Funds - 134.1%	
790,900	iShares Russell 2000 Index Fund(a)	\$66,570,053
453,600	PowerShares QQQ Trust, Series 1(a)	26,050,248
39,400	ProShares Ultra QQQ(a) (b)	3,546,000
253,500	ProShares Ultra S&P500(a)	13,514,085
425,600	SPDR Dow Jones Industrial Average ETF Trust(a)	52,357,312
535,300	SPDR S&P 500 ETF Trust(a)	70,932,603
258,100	SPDR S&P Retail ETF(a)	13,111,480
	(Cost \$235,869,565)	<u>246,081,781</u>
	Short-Term Investments - 0.2%	
	Money Market - 0.2%	
321,073	Dreyfus Institutional Reserve Money Market Fund	321,073
	(Cost \$321,073)	
	Total Investments - 134.3%	
	(Cost \$236,190,638)	246,402,854
	Other Assets in excess of Liabilities - 0.7%	1,287,536
	Total Value of Options Written - (5.6%) (Premiums received \$4,803,149)	(10,272,949)
	Borrowings - (29.4% of Net Assets or 21.9% of Total Investments)	(54,000,000)
	Net Assets - 100.0%	<u><u>\$ 183,417,441</u></u>

Contracts	Options Written	Expiration Date	Exercise Price	Value
	Call Options Written (b) - (5.6%)			
7,909	iShares Russell 2000 Index Fund	April 2011	\$80.00	\$(3,598,595)
4,536	PowerShares QQQ Trust, Series 1	April 2011	56.00	(798,336)
394	ProShares Ultra QQQ	April 2011	83.00	(302,395)
2,535	ProShares Ultra S&P500	April 2011	51.00	(726,277)
4,256	SPDR Dow Jones Industrial Average ETF Trust	April 2011	119.00	(1,851,360)
5,353	SPDR S&P 500 ETF Trust	April 2011	129.00	(2,226,848)
2,581	SPDR S&P Retail ETF	April 2011	48.00	(769,138)
	Total Value of Options Written - (5.6%)			
	(Premiums received \$4,803,149)			<u><u>\$(10,272,949)</u></u>

S&P - Standard & Poor's

- (a) All or a portion of this security position represents cover for outstanding options written. All of these securities have been physically segregated as collateral for borrowings outstanding.
(b) Non-income producing security.

See previously submitted notes to financial statements for the period ended December 31, 2010.

At March 31, 2011, the cost and related gross unrealized appreciation and depreciation on investments for tax purposes are as follows:

<u>Cost of Investments for Tax Purposes</u>	<u>Gross Tax Unrealized Appreciation</u>	<u>Gross Tax Unrealized Depreciation</u>	<u>Net Tax Unrealized Appreciation on Investments</u>
\$ 236,192,520	\$ 10,282,175	\$ (71,841)	\$ 10,210,334

Fair value is defined as the price that the Fund would receive to sell an investment or pay to transfer a liability in an orderly transaction with an independent buyer in the principal market, or in the absence of a principal market the most advantageous market for the investment or liability. There are three different categories for valuations. Level 1 valuations are those based upon quoted prices in active markets. Level 2 valuations are those based upon quoted prices in inactive markets or based upon significant observable inputs (e.g. yield curves; benchmark interest rates; indices). Level 3 valuations are those based upon unobservable inputs (e.g. discounted cash flow analysis; non-market based methods used to determine fair valuation).

The Fund has adopted the Accounting Standards Update, *Fair Value Measurements and Disclosures (Topic 820): 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, issuances and settlements on a gross basis will be effective for interim and annual periods beginning after December 15, 2010.

The Fund values Level 1 securities using readily available market quotations in active markets. The Fund values Level 2 fixed income securities using independent pricing providers who employ matrix pricing models utilizing market prices, broker quotes and prices of securities with comparable maturities and qualities. The Fund values Level 2 equity securities using various observable market inputs in accordance with procedures established in good faith by management and approved by the Board of Trustees. The Fund did not have any Level 3 securities at March 31, 2011.

The following table represents the Fund's investments carried on the Statement of Assets and Liabilities by caption and by level within the fair value hierarchy as of March 31, 2011:

<u>Description</u>	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
(value in \$000s)				
Assets:				
Exchange Traded Funds	\$ 246,082	\$ -	\$ -	\$ 246,082
Money Market Fund	321	-	-	321
Total	<u>\$ 246,403</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 246,403</u>
Liabilities:				
Derivatives	\$ 10,273	\$ -	\$ -	\$ 10,273
Total	<u>\$ 10,273</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 10,273</u>

There were no transfers between Level 1 and Level 2.

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 (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the "Investment Company Act")) as of a date within 90 days of the filing date of this report and have concluded, based on such evaluation 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 within the time periods specified in the Securities and Exchange Commission's rules and forms.
- (b) There was no change in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the Investment Company 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.

A separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the Investment Company Act (17 CFR 270.30a-2(a)), is attached hereto.

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.

Guggenheim Enhanced Equity Income Fund

By: /s/ Kevin M. Robinson
Name: Kevin M. Robinson
Title: Chief Executive Officer and Chief Legal Officer
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: /s/ Kevin M. Robinson
Name: Kevin M. Robinson
Title: Chief Executive Officer and Chief Legal Officer
Date: May 19, 2011

By: /s/ John Sullivan
Name: John Sullivan
Title: Chief Financial Officer, Chief Accounting Officer and Treasurer
Date: May 19, 2011

CERTIFICATIONS

I, Kevin M. Robinson, certify that:

1. I have reviewed this report on Form N-Q of Guggenheim Enhanced Equity Income Fund;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the schedule of investments included in this report fairly presents in all material respects the investments of the registrant as of the end of the fiscal quarter for which the report is filed;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940) and internal control over financial reporting (as defined in Rule 30a-3(d) under the Investment Company Act of 1940) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of a date within 90 days prior to the filing date of this report, based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize, and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 19, 2011

/s/ Kevin M. Robinson
Kevin M. Robinson
Chief Executive Officer and Chief Legal Officer

CERTIFICATIONS

I, John Sullivan, certify that:

1. I have reviewed this report on Form N-Q of Guggenheim Enhanced Equity Income Fund;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the schedule of investments included in this report fairly presents in all material respects the investments of the registrant as of the end of the fiscal quarter for which the report is filed;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940) and internal control over financial reporting (as defined in Rule 30a-3(d) under the Investment Company Act of 1940) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of a date within 90 days prior to the filing date of this report, based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize, and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 19, 2011

/s/ John Sullivan
John Sullivan
Chief Financial Officer, Chief Accounting Officer and
Treasurer