Voya Emerging Markets High Dividend Equity Fund Form N-Q July 24, 2014

OMB APPROVAL

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UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED

MANAGEMENT INVESTMENT COMPANY

Investment Company Act file number: 811-22438

Voya Emerging Markets High Dividend Equity Fund

(Exact name of registrant as specified in charter)

7337 East Doubletree Ranch Rd., Suite 100, Scottsdale, AZ 85258

(Address of principal executive offices) (Zip code)

Huey P. Falgout, Jr., 7337 East Doubletree Ranch Road, Scottsdale, AZ 85258

(Name and address of agent for service)

Registrant's telephone number, including area code: 1-800-992-0180

Date of fiscal year end: February 28

Date of reporting period: May 31, 2014

The schedules of investments as of the close of the reporting period are set forth below for:

Voya Emerging Markets High Dividend Equity Fund

The schedules are not audited.

Voya Emerging Markets High Dividend Equity Fund PORTFOLIO OF INVESTMENTS as of May 31, 2014 (Unaudited)

Shares			Value	Percentage of Net Assets
COMMON	ST	OCK: 92.6%		
		Brazil: 8.8%		
193,119	@	Banco Santander Brasil S.A.	\$1,305,965	0.5
652,059	@	BM&F Bovespa S.A.	3,248,216	1.2
355,780	@	Cia de Saneamento Basico do Estado de Sao Paulo	3,493,800	1.3
430,712		Cia Energetica de Minas Gerais ADR	3,023,598	1.2
169,583		Itau Unibanco Holding S.A.	2,640,296	1.0
278,633	@	Petroleo Brasileiro SA ADR	4,159,990	1.6
111,850	@	Porto Seguro SA	1,570,683	0.6
82,549		Telefonica Brasil SA	1,661,813	0.6
111,154	@	Totvs S.A.	1,964,781	0.8
			23,069,142	8.8
		Chile: 2.6%		
129,578		Banco Santander Chile ADR	3,252,408	1.3
10,431,463		Enersis SA	3,398,427	1.3
10,131,103		Elicions of t	6,650,835	2.6
		GIA 40.26		
000 000		China: 18.3%	2 727 012	1.1
908,000	<u></u>	BOC Hong Kong Holdings Ltd.	2,737,012	1.1
2,176,000	w	China BlueChemical Ltd.	1,166,320	0.5
4,816,000		China Communications Services Corp., Ltd.	2,288,757	0.9
6,380,000		China Construction Bank	4,693,333	1.8
68,385		China Mobile Ltd. ADR	3,354,968	1.3
3,671,200		China Petroleum & Chemical Corp.	3,319,922	1.3 2.0
1,960,000		China Resources Power Holdings Co. China Shanshui Cement Group Ltd.	5,159,615 2,655,036	1.0
7,276,000 1,048,000		China Shineway Pharmaceutical Group Ltd.	1,921,062	0.7
1,048,000	(a)	China Unicom Ltd.	1,921,002	0.7
1,282,000		CNOOC Ltd.	3,385,137	1.3
2,386,000	w	Harbin Electric Co. Ltd.	1,424,158	0.5
7,200,768		Industrial and Commercial Bank of China Ltd.	4,695,233	1.8
1,246,000	@		1,498,160	0.6
4,704,500	w	Parkson Retail Group Ltd.	1,391,008	0.5
878,000		Shanghai Industrial Holdings Ltd.	2,715,923	1.0
3,483,000		Zhejiang Expressway Co., Ltd.	3,453,173	1.0
3,403,000		Zhojiang Expressway Co., Etc.	47,776,103	18.3
		Czech Republic: 2.2%		
105,814		CEZ A/S	3,098,948	1.2
11,369	@	Komercni Banka AS	2,621,059	1.0

			5,720,007	2.2
		Greece: 0.8%		
562,696	@	National Bank of Greece SA	2,014,442	0.8
		Hong Kong: 3.6%		
657,200		AIA Group Ltd.	3,299,578	1.2
34,950,000		Emperor Watch & Jewellery Ltd.	2,530,310	1.0
1,146,000		Hang Lung Properties Ltd.	3,643,449	1.4
1,110,000		Traing Daily Troporties Etc.	9,473,337	3.6
		Hungary: 0.7%		
1,189,307	@	Magyar Telekom Telecommunications PLC	1,757,331	0.7
405.072		India: 6.3%	1 000 174	0.0
485,073		Bharat Heavy Electricals Ltd.	1,989,174	0.8
535,299		Coal India Ltd. NTPC Ltd.	3,362,269	1.3 1.5
1,487,772 491,845		Oil & Natural Gas Corp., Ltd.	4,042,128 3,148,766	1.3
414,522		Oriental Bank Of Commerce	2,378,568	0.9
102,808		Punjab National Bank	1,644,007	0.6
102,000		Tunjuo Puntonai Bank	16,564,912	6.3
		Indonesia: 1.0%		
4,477,000		Indofood Sukses Makmur Tbk PT	2,622,388	1.0
		Malaysia: 3.4%		
2,299,221		Berjaya Sports Toto BHD	2,734,332	1.0
1,769,700		IJM Corp. Bhd	3,686,925	1.4
1,647,300	@	IOI Corp. Bhd	2,528,637	1.0
			8,949,894	3.4
		Mexico: 2.4%		
1,164,375		Grupo Financiero Santander Mexico SAB de CV	3,122,751	1.2
108,613		Southern Copper Corp.	3,227,978	1.2
			6,350,729	2.4
		Panama: 0.9%		
87,577	@	Banco Latinoamericano de Comercio Exterior SA	2,341,809	0.9
		Poland: 3.3%		
296,800	(a)	Energa SA	1,847,938	0.7
285,352		PGE SA	1,970,717	0.8
121,932		Powszechna Kasa Oszczedności Bank Polski S.A.	1,632,711	0.6
20,560	Ü	Powszechny Zaklad Ubezpieczen SA	3,026,981	1.2
, -		, r	8,478,347	3.3

Voya Emerging Markets High Dividend Equity Fund PORTFOLIO OF INVESTMENTS as of May 31, 2014 (Unaudited) (Continued)

		Qatar: 1.7%		
145,462	(a)	Commercial Bank of Qatar	2,871,743	1.1
31,074		Industries Qatar QSC	1,615,027	0.6
, , , ,			4,486,770	1.7
			, ,	
		Russia: 6.7%		
269,241		CTC Media, Inc.	2,738,181	1.1
568,249		Gazprom OAO ADR	4,631,798	1.8
6,995		Lukoil OAO ADR	396,204	0.1
52,203		Lukoil OAO	2,945,219	1.1
189,359	@	Mobile Telesystems OJSC ADR	3,501,248	1.3
154,970	@	Phosagro OAO GDR	1,807,702	0.7
172,096	@	Severstal	1,453,436	0.6
			17,473,788	6.7
		Singapore: 1.0%		
148,000		United Overseas Bank Ltd.	2,664,292	1.0
		Sandh Africa 5 20/		
115 022	@	South Africa: 5.2%	1 600 012	0.6
115,933	w	Barclays Africa Group Ltd.	1,689,012	0.6
166,491		Foschini Group Ltd./The	1,780,522	0.7
161,126	(a)	MTN Group Ltd. PPC Ltd.	3,398,828	1.3 1.3
1,117,561 253,058		Standard Bank Group Ltd.	3,436,151 3,389,591	1.3
233,036	w	Standard Bank Group Etd.	13,694,104	5.2
			13,024,104	3.2
		South Korea: 11.7%		
136,502		Hite Jinro Co. Ltd.	2,893,412	1.1
108,590		Hyundai Marine & Fire Insurance Co., Ltd.	3,084,265	1.2
9,049		Hyundai Motor Co.	1,995,457	0.8
8,851		Hyundai Motor Co Series 2	1,312,738	0.5
110,830		Kangwon Land, Inc.	3,311,934	1.3
83,120	@	KB Financial Group, Inc.	2,826,463	1.1
41,884		KT&G Corp.	3,407,540	1.3
11,635		POSCO	3,298,458	1.2
2,035	@	Samsung Electronics Co., Ltd.	2,882,728	1.1
72,070		Shinhan Financial Group Co., Ltd.	3,150,711	1.2
23,586		SK Innovation Co. Ltd.	2,466,529	0.9
			30,630,235	11.7
		0 1 110		
20.624	C	Sweden: 1.1%	2 720 702	1 1
29,634	(a)	Millicom International Cellular S.A.	2,739,603	1.1

Taiwan: 9.7%

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695,959 4,459,390 216,083 4,047,466 1,599,700 1,133,000 1,597,000 1,235,000	Cheng Uei Precision In © CTBC Financial Holdin MediaTek, Inc. Mega Financial Holdin Powertech Technology Quanta Computer, Inc. Taiwan Semiconductor TXC Corp.	1,334,226 2,844,202 3,514,402 3,382,485 3,088,888 3,051,148 6,400,772 1,830,981 25,447,104	0.5 1.1 1.3 1.3 1.2 1.2 2.4 0.7 9.7				
	Thailand: 1.2%						
259,300	PTT PCL			2,324,155	0.9		
79,500	PTT PCL-Foreign			712,574	0.3		
				3,036,729	1.2		
	Total Common Stock (Cost \$237,996,895)			241,941,901	92.6	5	
PREFERRE 253,329 309,423	D STOCK: 4.2% Brazil: 1.9% Gerdau SA Vale SA	1,515,247 3,556,507 5,071,754	0.6 1.3 1.9				
	Russia: 0.9%						
1,202,255	Sberbank of Russia	2,366,766	0.9				
3,392	South Korea: 1.4% Samsung Electronics Co.	, Ltd. 3,689,319	1.4				
	Total Preferred Stock						
	(Cost \$11,409,865)	11,127,839	4.2				
	Total Long-Term Investme (Cost \$249,406,760)	253,069,740	96.8	8			
	ERM INVESTMENTS: 3. Mutual Funds: 3.2%						
8,251,340	BlackRock Liquidity Fur (Cost \$8,251,340)	nds, TempFund, Institu	ıtiona	al Class, 0.030 ⁶		8,251,340	3.2
	Total Short-Term Investme (Cost \$8,251,340)	ents				8,251,340	3.2
	Total Investments in Secu	urities			\$	261,321,080	100.0
	(Cost \$257,658,100)						
	Liabilities in Excess of O Net Assets	ther Assets				(86,025) 261,235,055	- 100.0

- †† Rate shown is the 7-day yield as of May 31, 2014.
- @ Non-income producing security

ADR American Depositary Receipt GDR Global Depositary Receipt

Cost for federal income tax purposes is \$260,130,231.

Net unrealized appreciation consists of:

Gross Unrealized Appreciation \$23,287,969 Gross Unrealized Depreciation (22,097,120)

Net Unrealized Appreciation \$1,190,849

Voya Emerging Markets High Dividend Equity Fund

PORTFOLIO OF INVESTMENTS as of May 31, 2014 (Unaudited) (Continued)

	Percentage
Sector Diversification	of Net
	Assets
Financials	29.9 %
Energy	11.8
Information Technology	10.6
Utilities	10.0
Materials	8.4
Telecommunication Services	7.9
Consumer Discretionary	6.9
Industrials	6.2
Consumer Staples	4.4
Health Care	0.7
Short-Term Investments	3.2
Liabilities in Excess of Other Assets	_
Net Assets	100.0 %

Fair Value

Measurements

The following is a summary of the fair valuations according to the inputs used as of May 31, 2014 in valuing the assets and liabilities:

	Quoted Prices in Active Markets for Identical Investments (Level 1)	Significant Other Observable Inputs # (Level 2)	Signif Unobs Inputs (Level	servable	Fair Value at May 31, 2014
Asset Table					
Investments, at fair value					
Common Stock					
Brazil	\$ 23,069,142	\$-	\$	_	\$23,069,142
Chile	6,650,835	_		_	6,650,835
China	3,354,968	44,421,135		_	47,776,103

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Czech Republic	_	5,720,007	_	5,720,007
Greece	_	2,014,442	_	2,014,442
Hong Kong	_	9,473,337	_	9,473,337
Hungary	_	1,757,331	_	1,757,331
India	_	16,564,912	_	16,564,912
Indonesia	_	2,622,388	_	2,622,388
Malaysia	_	8,949,894	_	8,949,894
Mexico	6,350,729	_	_	6,350,729
Panama	2,341,809	_	_	2,341,809
Poland	1,847,938	6,630,409	_	8,478,347
Qatar	_	4,486,770	_	4,486,770
Russia	10,871,227	6,602,561	_	17,473,788
Singapore	_	2,664,292	_	2,664,292
South Africa	_	13,694,104	_	13,694,104
South Korea	3,407,540	27,222,695	_	30,630,235
Sweden	_	2,739,603	_	2,739,603
Taiwan	_	25,447,104	_	25,447,104
Thailand	_	3,036,729	_	3,036,729
Total Common Stock	57,894,188	184,047,713	_	241,941,901
Preferred Stock	5,071,754	6,056,085	_	11,127,839
Short-Term Investments	8,251,340	_	_	8,251,340
Total Investments, at fair value	\$ 71,217,282	\$190,103,798 \$	_	\$261,321,080
Liabilities Table				
Other Financial Instruments+				
Written Options	\$ -	\$(911,924) \$	_	\$(911,924)
Total Liabilities	\$ -	\$(911,924) \$	_	\$(911,924)

Other Financial Instruments are derivatives not reflected in the Portfolio of Investments and may include open forward foreign currency contracts, futures, centrally cleared swaps, OTC swaps and written options. Forward foreign currency contracts, futures and centrally cleared swaps are valued at the unrealized gain (loss) on the instrument. OTC swaps and written options are valued at the fair value of the instrument.

The earlier close of the foreign markets gives rise to the possibility that significant events, including broad market moves, may have occurred in the interim and may materially affect the value of those securities. To account for this, #the Fund may frequently value many of its foreign equity securities using fair value prices based on third party vendor modeling tools to the extent available. Accordingly, a portion of the Fund's investments are categorized as Level 2 investments.

Voya Emerging Markets High Dividend Equity Fund

PORTFOLIO OF INVESTMENTS as of May 31, 2014 (Unaudited) (Continued)

Voya Emerging Markets High Dividend Equity Fund Written OTC Options on May 31, 2014:

Number of Contracts	Counterparty	Description	Exercise Price			Premiums Received	Fair Value
Options of	n Indices						
605,700	Citigroup, Inc.	Call on iShares MSCI Emerging Markets Index Fund	41.650	USD	06/06/14	\$481,380	\$(619,846)
608,900	Morgan Stanley	Call on iShares MSCI Emerging Markets Index Fund	42.969	USD	06/20/14	482,553	(292,078)
	•		Total Written OTC Options		OTC	\$963,933	\$(911,924)

Voya Emerging Markets High Dividend Equity Fund as of May 31, 2014 (Unaudited) (Continued)

A summary of derivative instruments by primary risk exposure is outlined in the following tables.

The fair value of derivative instruments as of May 31, 2014 was as follows:

Derivatives not accounted for as hedging instruments

Fair Value

Liability Derivatives Instrument Type

Equity contracts Written options \$911,924 Total Liability Derivatives \$911,924

The following is a summary by counterparty of the fair value of OTC derivative instruments subject to Master Netting Agreements and collateral pledged (received), if at May 31, 2014:

	Citigroup, Inc.	Morgan Stanley	Totals
Liabilities: Written options Total Liabilities	\$ 619,846 \$ 619,846	\$ 292,078 \$ 292,078	\$911,924 \$911,924
Net OTC derivative instruments by counterparty, at fair value	\$ (619,846	\$ (292,078)	(911,924)
Total collateral pledged by the Fund/(Received from counterparty)	\$ -	\$ -	\$-
Net Exposure ⁽¹⁾	\$ (619,846	\$ (292,078)	\$(911,924)

⁽¹⁾ Positive net exposure represents amounts due from each respective counterparty. Negative exposure represents amounts due from the Fund.

Item 2. Controls and Procedures.

Based on our evaluation conducted within 90 days of the filing date, hereof, the design and operation of the registrant's disclosure controls and procedures are effective to ensure that material information relating to the registrant is made known to the certifying officers by others within the appropriate entities, particularly during the period in which Forms N-Q are being prepared, and the registrant's disclosure controls and procedures allow timely preparation and review of the information for the registrant's Form N-Q and the officer certifications of such Form N-Q.

There were no significant changes in the registrant's internal controls over financial reporting that occurred during (b) the registrant's last fiscal quarter of the period covered by this report 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 under the Act (17 CFR 270.30a-2) is attached hereto as EX-99.CERT.

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.

(Registrant): Voya Emerging Markets High Dividend Equity Fund

/s/ Shaun P. Mathews By

Shaun P. Mathews

President and Chief Executive Officer

Date: July 24, 2014

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.

/s/ Shaun P. Mathews BvShaun P. Mathews President and Chief Executive Officer

Date: July 24, 2014

/s/ Todd Modic By**Todd Modic** Senior Vice President and Chief Financial Officer

Date: July 24, 2014