ING Infrastructure, Industrials & Materials Fund Form N-Q January 18, 2011

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: 811-22051

ING Infrastructure, Industrials and Materials Fund

(Exact name of registrant as specified in charter)

7337 East Doubletree Ranch Rd., 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: Date of reporting period:

February 28 November 30, 2010

Item 1. Schedule of Investments
The schedules of investments as of the close of the reporting period are set forth below for:
ING Infrastructure, Industrials and Materials Fund
The schedules are not audited.

ING Infrastructure, Industrials and Materials Fund

PORTFOLIO OF INVESTMENTS as of November 30, 2010 (Unaudited)

Shares COMMON STOCK: 98.5%			Value
		Brazil: 4.3%	
429,200		All America Latina Logistica SA	\$ 3,992,616
52,900		CPFL Energia S.A. ADR	3,756,429
231,000		Vale S.A. ADR	7,318,080
167,800		Weg S.A.	2,208,822
			17,275,947
		Canada: 0.9%	
757,400		Bombardier, Inc Class B	3,467,712
			3,467,712
		Chile: 1.0%	
169,100		Enersis SA ADR	4,022,889
			4,022,889
		China: 2.5%	
1,580,000		Angang New Steel Co., Ltd.	2,267,127
6,673,198		China Railway Group Ltd.	4,662,497
2,052,000		Harbin Power Equipment	3,076,664
		• •	10,006,288
		Finland: 1.0%	
85,997		Outotec OYJ	4,229,939
			4,229,939
		France: 5.0%	, ,
124,403		Alstom	5,117,623
121,848	@	Compagnie Generale de Geophysique S.A.	2,818,698
141,290		Suez Environnement S.A.	2,513,272
185,824		Veolia Environnement	4,892,882
104,276		Vinci S.A.	5,044,049
			20,386,524
		Germany: 8.2%	,
84,900		BASF AG	6,320,076
374,557		Deutsche Telekom AG	4,791,092
173,624		E.ON AG	4,970,301
129,708		GEA Group AG	3,110,346
62,553		Siemens AG	6,818,027
182,200		ThyssenKrupp AG	6,930,535
102,200		injoothinapp iio	32,940,377
		Hong Kong: 2.8%	02,5 10,677
105,400		China Mobile Ltd. ADR	5,254,190
454,300		China Unicom Ltd. ADR	6,105,792
,		Ciniu Cinvoin Ziul 1251	11,359,982
		India: 0.6%	11,000,002
48,902		Bharat Heavy Electricals	2,347,041
10,702		Bilarat Fleavy Electricais	2,347,041
		Ireland: 3.5%	2,547,041
312,239		CRH PLC	5,431,974
215,400		Ingersoll-Rand PLC	8,831,400
213,400		ingerson-Rand i Le	14,263,374
		Italy: 0.6%	17,203,3/7
163,841		Prysmian S.p.A.	2,606,923
103,071		11yonnan o.p.n.	2,606,923 2,606,923
		Japan: 4.4%	2,000,923
957,000		Hitachi Ltd.	4,513,372
310,500		Komatsu Ltd.	8,580,997
310,500		Romatsa Lta.	6,560,397

462,000		Mitsubishi Electric Corp.	4,564,087
			17,658,456
160.000		Luxembourg: 2.7%	5.045.504
168,800		ArcelorMittal	5,347,584
62,700		Millicom International Cellular S.A.	5,441,106
			10,788,690
		Malaysia: 0.9%	
1,359,700		Tenaga Nasional BHD	3,646,385
			3,646,385
		Netherlands: 2.5%	
125,700	@	Chicago Bridge & Iron Co. NV	3,558,567
293,376	@	European Aeronautic Defence and Space Co. NV	6,573,186
			10,131,753
		Norway: 1.0%	
89,050		Yara International ASA	4,232,514
,			4,232,514
		Russia: 1.5%	, ,
288,000		Mobile Telesystems Finance SA ADR	6,039,360
,		, , , , , , , , , , , , , , , , , , ,	6,039,360
		South Korea: 1.4%	0,000,000
57,673		Posco ADR	5,677,330
31,013		1 0500 ADK	5,677,330
		Spain: 0.0%	3,077,330
73	@	Telvent GIT S.A.	1,742
13	w .	Tervent GIT S.A.	1,742
		Sweden: 1.1%	1,742
105.010			4 210 705
195,212		Atlas Copco AB - Class A	4,310,725
		a	4,310,725
		Switzerland: 1.4%	
278,890		Xstrata PLC	5,599,153
			5,599,153

PORTFOLIO OF INVESTMENTS as of November 30, 2010 (Unaudited) (continued)

ING Infrastructure, Industrials and Materials Fund

Shares

203,268

437,456

629,480

131,100

145,197

89,400

97,000

64,500

380,700

128,700

493,800

88,500

95,500

120,000

186,000

81,300

209,200

47,600

79,300

160,200

116,400

41,200

61,800

107,400

130,900

62,900

223,400

116,300

80,800

133,900

234,800

103,600 95,600

291,200

4,341,000

3,027,960

Value United Kingdom: 9.0% Anglo American PLC \$ 8,914,714 Cookson Group PLC (a) 3,666,185 International Power PLC 3,996,058 Rio Tinto PLC 8,358,072 Vodafone Group PLC 7,554,480 Weir Group PLC 3,931,125 36,420,634 United States: 42.2% Acuity Brands, Inc. 4,815,084 @ Ansys, Inc. 4,704,500 @ Atlas Air Worldwide Holdings, Inc. 3,519,120 (a) Cal Dive International, Inc. 2,036,745 Caterpillar, Inc. 10,888,020 CenterPoint Energy, Inc. 7,718,094 Cummins, Inc. 8,595,120 Deere & Co. 7,133,850 EI Du Pont de Nemours & Co. 5,638,800 Fluor Corp. 10,756,380 Harsco Corp. 1,956,078 Honeywell International, Inc. 10,399,331 Joy Global, Inc. 3,632,832 Kaiser Aluminum Corp. 3,719,170 National Oilwell Varco, Inc. 9,818,658 Peabody Energy Corp. 6,845,484 Regal-Beloit Corp. 2,513,200 Roper Industries, Inc. 4,474,938 SBA Communications Corp. 4,204,710 **@** Schlumberger Ltd. 10,123,806 TransDigm Group, Inc. (a) 4,308,650 Trinity Industries, Inc. 5,115,860 UGI Corp. 3,450,621 Union Pacific Corp. 7,280,888 United Parcel Service, Inc. - Class B 9,390,407 @ United Rentals, Inc. 4,606,776 United Technologies Corp. 7,797,972 (a) WABCO Holdings, Inc. 4,751,320 170,196,414 Total Common Stock (Cost \$345,687,022) 397,610,152 PREFERRED STOCK: 0.8% **Brazil: 0.8%** Usinas Siderurgicas de Minas Gerais S.A. 3,175,924 Total Preferred Stock (Cost \$3.897.316) 3,175,924 Total Long-Term Investments (Cost \$349,584,338) 400,786,076 **SHORT-TERM INVESTMENTS: 1.1% Affiliated Mutual Fund: 1.1%**

ING Institutional Prime Money Market Fund - Class I

Total Short-Term Investments

Total Investments in Securities

(Cost \$4,341,000)

4,341,000

4,341,000

	(Cost \$353,925,338)* Other Assets and Liabilities - Net	100.4%	\$ 405,127,076
	Net Assets	(0.4) 100.0%	\$ (1,710,454) 403,416,622
@	Non-income producing security		
ADR	American Depositary Receipt		
*	Cost for federal income tax purposes is the same a	as for financial	
	statement purposes.		
	Net unrealized appreciation consists of:		
	Gross Unrealized Appreciation		\$ 66,526,033
	Gross Unrealized Depreciation		(15,324,295)
	Net Unrealized Appreciation		\$ 51,201,738

PORTFOLIO OF INVESTMENTS as of November 30, 2010 (Unaudited) (continued)

ING Infrastructure, Industrials and Materials Fund

Industry	Percentage of Net Assets
Energy	7.8%
Industrials	50.2
Information Technology	2.3
Materials	19.6
Telecommunication Services	9.8
Utilities	9.6
Short-Term Investments	1.1
Other Assets and Liabilities - Net	(0.4)
Net Assets	100.0%

ING Infrastructure, Industrials and Materials Fund

PORTFOLIO OF INVESTMENTS as of November 30, 2010 (Unaudited) (continued)

Fair Value Measurements

The following is a summary of the fair valuations according to the inputs used as of November 30, 2010 in valuing the Fund s assets and liabilities:

	in Activ for Identica	ed Prices te Markets al Investments evel 1)	Other Observable Inputs# (Level 2)	Significant Unobservable Inputs (Level 3)	Fair Value at 11/30/2010
Asset Table					
Investments, at value					
Common Stock*					
Brazil	\$	17,275,947	\$	\$	\$ 17,275,947
Canada		3,467,712			3,467,712
Chile		4,022,889			4,022,889
China		, ,	10,006,288		10,006,288
Finland			4,229,939		4,229,939
France			20,386,524		20,386,524
Germany			32,940,377		32,940,377
Hong Kong		11,359,982	, ,		11,359,982
India		, ,	2,347,041		2,347,041
Ireland		8,831,400	5,431,974		14,263,374
Italy			2,606,923		2,606,923
Japan			17,658,456		17,658,456
Luxembourg		10,788,690	, ,		10,788,690
Malaysia			3,646,385		3,646,385
Netherlands		3,558,567	6,573,186		10,131,753
Norway			4,232,514		4,232,514
Russia		6,039,360			6,039,360
South Korea		5,677,330			5,677,330
Spain		1,742			1,742
Sweden			4,310,725		4,310,725
Switzerland			5,599,153		5,599,153
United Kingdom			36,420,634		36,420,634
United States		170,196,414			170,196,414
Total Common Stock		241,220,033	156,390,119		397,610,152
Preferred Stock		3,175,924			3,175,924
Short-Term Investments		4,341,000			4,341,000
Total Investments, at					
value	\$	248,736,957	\$ 156,390,119	\$	\$ 405,127,076
Liabilities Table					
Other Financial Instruments+	:				
Written options				(2,083,449)	(2,083,449)
Total Liabilities	\$		\$	\$ (2,083,449)	\$ (2,083,449)

The following is a reconciliation of the fair valuations using significant unobservable inputs (Level 3) for the Fund s assets and liabilities during the period ended November 30, 2010:

	Beginning Balance		Ac	crued Discour	ífs∕tal Reali Eed a	l Unrealized Apprec i a	tions fersNn	ntosfers Outl	onfding Balance
	2/28/2010	Purchases	Sales	(Premiums)	Gain/(Loss)	(Depreciation)	Level 3	Level 3	11/30/2010
Liabilities									
Table									
Other									
Financial									
Instruments+:									
Written options	(2,267,022)	(3,574,736)	4,514,802		(907,932)	151,439			(2,083,449)
Total Liabilities	\$ (2,267,022)	(3,574,736) \$	4,514,802	\$	\$ (907,932)	\$ 151,439	\$	\$	(2,083,449)

As of November 30, 2010, total change in unrealized gain (loss) on Level 3 securities still held at period end and included in the change in net assets was \$1.491.286.

+ Other Financial Instruments are derivatives not reflected in the Summary Portfolio of Investments and may include open forward foreign currency contracts, futures, swaps, and written options. Forward foreign currency contracts and futures are reported at their unrealized gain/loss at measurement date which represents the amount due to/from the Fund. Swaps and written options are reported at their market value at measurement date.

Transfers in or out of Level 3 represents either the beginning value (for transfers in), or the ending value (for transfers out) of any security or derivative instrument where a change in the pricing level occurred from the beginning to the end of the period.

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 Portfolio 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 significant portion of the Portfolio s investments are categorized as Level 2 investments.

ING Infrastructure, Industrials and Materials Fund

PORTFOLIO OF INVESTMENTS as of November 30, 2010 (Unaudited) (continued)

Written OTC Call Options

# of Contracts	Counterparty	Description	Expiration Date	Strik Price/R		_	Premiums Received	Fair Value
1	BNP Paribas Bank	Custom Basket of Equity	12/17/10	100.000	EUR		necerveu	v unuc
		Securities				\$	965,434 \$	(301,791)
10,345,600	Citigroup, Inc.	Custom Basket of Equity	12/17/10	100.000	GBP		562,396	(235,588)
		Securities						
1	BNP Paribas Bank	Custom Basket of Equity	12/17/10	100.000	USD		751,097	(567,702)
		Securities						
537,680	JP Morgan Chase &	Custom Basket of Equity	12/17/10	100.000	USD		1,295,809	(978,368)
	Co.	Securities						
						\$	3,574,736 \$	(2,083,449)

PORTFOLIO OF INVESTMENTS as of November 30, 2010 (Unaudited) (continued)

ING Infrastructure, Industrials and Materials Fund

On March 19, 2008, the FASB issued Statement of Financial Accounting Standards No. 161 (SFAS No. 161), Disclosure about Derivative Instruments and Hedging Activities. This new accounting statement requires enhanced disclosures about an entity s derivative and hedging activities. Entities are required to provide enhanced disclosures about (a) how and why an entity invests in derivatives, (b) how derivatives are accounted for under SFAS No. 133, and (c) how derivatives affect an entity s financial position, financial performance, and cash flows. SFAS No. 161 also requires enhanced disclosures regarding credit-risk related contingent features of derivative instruments.

The following is a summary of the fair valuations of the Fund s derivative instruments categorized by risk exposure as of November 30, 2010:

	Derivatives Fair Value*
Equity contracts	\$ (2,083,449)
Total	\$ (2,083,449)

^{*} Forward foreign currency contracts and futures are reported at their unrealized gain/loss at measurement date which represents the amount due to/from the Fund. Swaps, purchased options and written options are reported at their market value at measurement date.

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): ING Infrastructure, Industrials and Materials Fund

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

Date: January 18, 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/ Shaun P. Mathews Shaun P. Mathews President and Chief Executive Officer

Date: January 18, 2011

By /s/ Todd Modic Todd Modic

Senior Vice President and Chief Financial Officer

Date: January 18, 2011