

**CalPERS 2016 Northern Ireland Report**

Companies with Operations in Northern Ireland "compliant with principles of non-discrimination"

Holdings Data as of December 31, 2016

Company Name	Country	Equity Exposure		Fixed Income Exposure	
		Market Value		Market Value	
Aktiebolaget Electrolux	Sweden	\$	18,939,117	\$	-
Allergan plc	Ireland	\$	205,576,899	\$	-
Allianz SE	Germany	\$	-	\$	107,897
AON PLC	United Kingdom	\$	-	\$	10,842,615
ASSA ABLOY AB	Sweden	\$	58,685,049	\$	-
ASSOCIATED BRITISH FOODS PLC	United Kingdom	\$	23,806,941	\$	-
ASTRAZENECA PLC	United Kingdom	\$	50,967,700	\$	-
AVIVA PLC	United Kingdom	\$	61,256,772	\$	-
BANCO SANTANDER, S.A.	Spain	\$	203,816,662	\$	-
Bank of Ireland	Ireland	\$	17,027,644	\$	-
BARCLAYS PLC	United Kingdom	\$	-	\$	104,440
BERENDSEN PLC	United Kingdom	\$	5,758,379	\$	-
BOMBARDIER INC.	Canada	\$	-	\$	3,394,038
BOUYGUES S.A.	France	\$	24,018,392	\$	-
BRITVIC PLC	United Kingdom	\$	4,936,675	\$	-
BT GROUP PLC	United Kingdom	\$	82,692,867	\$	-
BUNZL PUBLIC LIMITED COMPANY	United Kingdom	\$	20,314,303	\$	-
C & C GROUP PUBLIC LIMITED COMPANY	Ireland	\$	8,634,793	\$	-
CANON INC.	Japan	\$	72,295,947	\$	-
CARILLION PLC	United Kingdom	\$	4,364,984	\$	-
CLOSE BROTHERS GROUP PLC	United Kingdom	\$	7,308,303	\$	-
Coca-Cola HBC AG	Switzerland	\$	36,148,972	\$	-
COMPAGNIE DE SAINT-GOBAIN S.A.	France	\$	87,088,049	\$	-
COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN S.C.A.	France	\$	76,855,062	\$	-
COMPASS GROUP PLC	United Kingdom	\$	91,135,806	\$	-
CRH PUBLIC LIMITED COMPANY	Ireland	\$	111,383,367	\$	-
DCC PUBLIC LIMITED COMPANY	Ireland	\$	20,999,328	\$	-
Deutsche Post AG	Germany	\$	126,543,702	\$	-
Deutsche Telekom AG	Germany	\$	179,197,686	\$	-
DIXONS CARPHONE PLC	United Kingdom	\$	9,545,598	\$	-
DSV A/S	Denmark	\$	47,948,956	\$	-
Ferrovial, S.A.	Spain	\$	22,836,303	\$	-
Fidessa Group PLC	United Kingdom	\$	2,837,283	\$	-
FUJITSU LIMITED	Japan	\$	53,595,586	\$	-
GENPACT LIMITED	Bermuda	\$	26,326,022	\$	-
GENTING SINGAPORE PLC	Singapore	\$	13,318,425	\$	-
GLANBIA PUBLIC LIMITED COMPANY	Ireland	\$	9,951,859	\$	-
Grafton Group plc	Ireland	\$	3,676,675	\$	-
GREGGS PLC	United Kingdom	\$	6,148,140	\$	-
H & M Hennes & Mauritz AB	Sweden	\$	74,912,829	\$	-
HALFORDS GROUP PLC	United Kingdom	\$	3,332,821	\$	-
HARVEY NORMAN HOLDINGS LTD	Australia	\$	4,998,580	\$	-
HAYS PLC	United Kingdom	\$	8,136,625	\$	-
HSBC HOLDINGS PLC	United Kingdom	\$	-	\$	645,568
Huhtamaki Oyj	Finland	\$	11,285,788	\$	-
IMPERIAL BRANDS PLC	United Kingdom	\$	71,481,643	\$	-
Industria de Diseno Textil, S.A.	Spain	\$	154,245,031	\$	-
International Consolidated Airlines Group S.A.	United Kingdom	\$	13,237,248	\$	-
INTERSERVE PLC	United Kingdom	\$	1,410,223	\$	-
J SAINSBURY PLC	United Kingdom	\$	23,433,845	\$	-
JAPAN TOBACCO INC.	Japan	\$	4,445,969	\$	-
JD Sports Fashion PLC	United Kingdom	\$	-	\$	-
Kao Corporation	Japan	\$	54,104,075	\$	-
Kerry Group plc	Ireland	\$	33,322,058	\$	-
KINGFISHER PLC	United Kingdom	\$	24,796,568	\$	-
KINGSPAN GROUP PUBLIC LIMITED COMPANY	Ireland	\$	16,306,821	\$	-

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Company Name	Country	Equity Exposure		Fixed Income Exposure	
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KONE Oyj	Finland	\$	80,799,988	\$	-
Koninklijke DSM N.V.	Netherlands	\$	37,959,255	\$	-
Koninklijke Philips N.V.	Netherlands	\$	86,079,064	\$	-
Kuehne + Nagel International AG	Switzerland	\$	19,205,414	\$	-
KYOCERA CORPORATION	Japan	\$	35,290,827	\$	-
LAGARDERE SCA	France	\$	11,403,789	\$	-
LEGAL & GENERAL GROUP PLC	United Kingdom	\$	39,658,787	\$	-
LIBERTY GLOBAL PLC	United Kingdom	\$	42,099,245	\$	-
Linde Aktiengesellschaft	Germany	\$	86,746,297	\$	-
LLOYDS BANKING GROUP PLC	United Kingdom	\$	-	\$	26,426,140
L'OREAL S.A.	France	\$	90,429,384	\$	-
MARKS AND SPENCER GROUP P.L.C.	United Kingdom	\$	16,843,422	\$	-
MICHAEL KORS HOLDINGS LIMITED	United Kingdom	\$	24,006,135	\$	-
MITCHELLS & BUTLERS PLC	United Kingdom	\$	2,638,203	\$	-
Nampak Ltd.	South Africa	\$	2,029,266	\$	-
Nationwide Building Society	United Kingdom	\$	-	\$	327,977
NEXT PLC	United Kingdom	\$	20,194,766	\$	-
NORTHGATE PLC	United Kingdom	\$	4,504,254	\$	-
Orange S.A.	France	\$	86,306,499	\$	-
OXFORD INSTRUMENTS PLC	United Kingdom	\$	1,096,402	\$	-
PEARSON PLC	United Kingdom	\$	3,662,134	\$	-
Polaris Consulting & Services Limited	India	\$	141,565	\$	-
POLYPIPE GROUP PLC	United Kingdom	\$	2,205,086	\$	-
PREMIER FOODS PLC	United Kingdom	\$	1,747,000	\$	-
PROVIDENT FINANCIAL PLC	United Kingdom	\$	10,139,532	\$	-
R P S GROUP PLC	United Kingdom	\$	2,153,650	\$	-
REXEL S.A.	France	\$	14,836,060	\$	-
RSA INSURANCE GROUP PLC	United Kingdom	\$	14,392,568	\$	-
Sandvik Aktiebolag	Sweden	\$	45,697,923	\$	-
SCHNEIDER ELECTRIC SE	France	\$	126,663,603	\$	-
SEAGATE TECHNOLOGY PUBLIC LIMITED COMPANY	Ireland	\$	44,826,886	\$	-
SERCO GROUP PLC	United Kingdom	\$	4,575,362	\$	-
SGS SA	Switzerland	\$	41,354,376	\$	-
Shiseido Company, Limited	Japan	\$	21,273,197	\$	-
SIGNET JEWELERS LIMITED	Bermuda	\$	20,354,693	\$	-
Sixt SE	Germany	\$	1,840,202	\$	-
SMURFIT KAPPA GROUP PUBLIC LIMITED COMPANY	Ireland	\$	13,682,234	\$	-
SPORTS DIRECT INTERNATIONAL PLC	United Kingdom	\$	1,571,359	\$	-
SSE PLC	United Kingdom	\$	-	\$	103,412
SuperGroup PLC	United Kingdom	\$	3,512,440	\$	-
TECH MAHINDRA LIMITED	India	\$	5,957,780	\$	-
Telefonica S.A.	Spain	\$	109,172,064	\$	-
THALES S.A.	France	\$	23,771,753	\$	-
THE RESTAURANT GROUP PLC	United Kingdom	\$	1,832,144	\$	-
THE ROYAL BANK OF SCOTLAND GROUP PUBLIC LIMITED COMPANY	United Kingdom	\$	-	\$	574,716
THOMAS COOK GROUP PLC	United Kingdom	\$	5,529,426	\$	-
TRAVIS PERKINS PLC	United Kingdom	\$	8,955,565	\$	-
TRIGANO S.A.	France	\$	5,337,678	\$	-
TRINITY MIRROR PLC	United Kingdom	\$	-	\$	-
UNITECH LIMITED	India	\$	384,794	\$	-
VODAFONE GROUP PUBLIC LIMITED COMPANY	United Kingdom	\$	-	\$	-
WH SMITH PLC	United Kingdom	\$	7,600,422	\$	-
WPP PLC	United Kingdom	\$	96,332,904	\$	-
WS ATKINS PLC	United Kingdom	\$	5,432,781	\$	-
Zurich Insurance Group AG	Switzerland	\$	140,646,113	\$	-
3M COMPANY	US	\$	272,508,534	\$	-

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Company Name	Country	Equity Exposure		Fixed Income Exposure	
		Market Value	Market Value	Market Value	Market Value
AECOM	US	\$ 39,468,416	\$ -		
AIR PRODUCTS AND CHEMICALS, INC.	US	\$ 78,791,068	\$ -		
AMAZON.COM, INC.	US	\$ 695,168,483	\$ -		
AMERICAN CAPITAL, LTD.	US	\$ 5,902,848	\$ -		
AMERICAN INTERNATIONAL GROUP, INC.	US	\$ -	\$ 29,591,835		
AMETEK, INC.	US	\$ 23,148,180	\$ -		
APPLE INC.	US	\$ -	\$ 100,904,580		
ARRIS INTERNATIONAL PLC	US	\$ 35,214,287	\$ -		
AVIS BUDGET GROUP, INC.	US	\$ 14,277,066	\$ -		
AVON PRODUCTS, INC.	US	\$ 18,577,692	\$ -		
AVX CORPORATION	US	\$ 1,648,965	\$ -		
B/E AEROSPACE, INC.	US	\$ 16,401,775	\$ -		
BAXTER INTERNATIONAL INC.	US	\$ 83,771,074	\$ -		
BEMIS COMPANY, INC.	US	\$ 13,155,904	\$ -		
BLACK BOX CORPORATION	US	\$ 2,314,950	\$ -		
CBRE GROUP, INC.	US	\$ 21,574,397	\$ -		
CITIGROUP INC.	US	\$ 574,171,772	\$ -		
CLEAR CHANNEL OUTDOOR HOLDINGS, INC.	US	\$ 925,261	\$ -		
CME GROUP INC.	US	\$ 119,747,142	\$ -		
COLFAX CORPORATION	US	\$ 7,775,252	\$ -		
COLUMBUS MCKINNON CORPORATION	US	\$ 2,195,648	\$ -		
COMPUTER SCIENCES CORPORATION	US	\$ 22,465,335	\$ -		
COWEN GROUP, INC.	US	\$ 326,594	\$ -		
DOMINO'S PIZZA, INC.	US	\$ 22,417,329	\$ -		
DTS, INC.	US	\$ -	\$ -		
E. I. DU PONT DE NEMOURS AND COMPANY	US	\$ 178,673,289	\$ -		
ECOLAB INC.	US	\$ 64,810,938	\$ -		
ELI LILLY AND COMPANY	US	\$ 210,446,556	\$ -		
EMERSON ELECTRIC CO.	US	\$ 118,018,234	\$ -		
EXPEDITORS INTERNATIONAL OF WASHINGTON, INC	US	\$ 26,413,800	\$ -		
FEDEX CORPORATION	US	\$ 114,404,818	\$ -		
GENERAL ELECTRIC COMPANY	US	\$ -	\$ 27,151,579		
HENRY SCHEIN, INC.	US	\$ 32,712,469	\$ -		
HEWLETT PACKARD ENTERPRISE COMPANY	US	\$ -	\$ -		
HONEYWELL INTERNATIONAL INC.	US	\$ 310,134,041	\$ -		
HYSTER-YALE MATERIALS HANDLING, INC.	US	\$ 994,812	\$ -		
ILLINOIS TOOL WORKS INC.	US	\$ 116,986,895	\$ -		
INTERFACE, INC.	US	\$ 4,070,241	\$ -		
INTERNATIONAL BUSINESS MACHINES CORPORATION	US	\$ -	\$ 9,358,560		
JACOBS ENGINEERING GROUP INC.	US	\$ 32,689,899	\$ -		
JOHNSON & JOHNSON	US	\$ 839,138,948	\$ -		
KELLOGG COMPANY	US	\$ 61,158,072	\$ -		
LIVE NATION ENTERTAINMENT, INC.	US	\$ -	\$ 808,000		
MANPOWERGROUP INC.	US	\$ 20,622,284	\$ -		
MARSH & MCLENNAN COMPANIES, INC.	US	\$ 94,719,071	\$ -		
MERCK & CO., INC.	US	\$ 490,129,956	\$ -		
MICROSOFT CORPORATION	US	\$ 1,259,539,770	\$ -		
MOHAWK INDUSTRIES, INC.	US	\$ 25,399,296	\$ -		
MOLSON COORS BREWING COMPANY	US	\$ -	\$ 13,218,940		
NCR CORPORATION	US	\$ 35,034,065	\$ -		
NIKE, INC.	US	\$ 146,378,252	\$ -		
OMNICOM GROUP INC.	US	\$ 93,261,666	\$ -		
ORACLE CORPORATION	US	\$ -	\$ 28,382,750		
Pepsico, Inc.	US	\$ -	\$ 204,229		
PFIZER INC.	US	\$ -	\$ 43,462,200		
PITNEY BOWES INC.	US	\$ 10,768,373	\$ -		

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Company Name	Country	Equity Exposure		Fixed Income Exposure	
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PPG INDUSTRIES, INC.	US	\$	61,350,846	\$	-
QUALCOMM INCORPORATED	US	\$	286,690,138	\$	-
Regis Corporation	US	\$	2,957,477	\$	-
SALLY BEAUTY HOLDINGS, INC.	US	\$	10,124,144	\$	-
SONOCO PRODUCTS COMPANY	US	\$	20,322,069	\$	-
STANLEY BLACK & DECKER, INC.	US	\$	70,172,732	\$	-
STARBUCKS CORPORATION	US	\$	197,773,455	\$	-
STERICYCLE, INC.	US	\$	6,735,838	\$	-
SYSCO CORPORATION	US	\$	84,076,909	\$	-
TELETECH HOLDINGS, INC.	US	\$	1,825,364	\$	-
TEREX CORPORATION	US	\$	-	\$	2,052,500
THE AES CORPORATION	US	\$	-	\$	3,950,000
THE ALLSTATE CORPORATION	US	\$	100,862,348	\$	-
THE CARLYLE GROUP L.P.	US	\$	1,396,900	\$	-
THE COCA-COLA COMPANY	US	\$	439,447,144	\$	-
THE DOW CHEMICAL COMPANY	US	\$	208,025,942	\$	-
THE DUN & BRADSTREET CORPORATION	US	\$	17,784,541	\$	-
THE GAP, INC.	US	\$	25,144,783	\$	-
THE GOODYEAR TIRE & RUBBER COMPANY	US	\$	-	\$	1,693,625
THE HAIN CELESTIAL GROUP, INC.	US	\$	5,393,361	\$	-
THE INTERPUBLIC GROUP OF COMPANIES, INC.	US	\$	48,787,259	\$	-
THE PROCTER & GAMBLE COMPANY	US	\$	592,331,913	\$	-
THE TJX COMPANIES, INC.	US	\$	168,216,145	\$	-
THE WALT DISNEY COMPANY	US	\$	439,741,178	\$	-
VALERO ENERGY CORPORATION	US	\$	-	\$	5,155,598
VIRTUSA CORPORATION	US	\$	2,205,536	\$	-
VISA INC.	US	\$	-	\$	35,572,160
VORNADO REALTY TRUST	US	\$	42,500,821	\$	-
VWR Corporation	US	\$	2,555,563	\$	-
WAL-MART STORES, INC.	US	\$	-	\$	6,340,680
XEROX CORPORATION	US	\$	36,936,709	\$	-
YUM! BRANDS, INC.	US	\$	63,544,625	\$	-
		<b>TOTAL:</b>	\$ 13,063,620,116	\$	350,374,039

## CalPERS 2016 Northern Ireland Report

Companies with Operations in Northern Ireland "that may not be compliant with principles of non-discrimination"  
Holdings Data as of December 31, 2016

Company Name	Country	Equity Exposure Market		Fixed Income Exposure	
		Value	Market Value	Market Value	Market Value
Adecco Group AG	Switzerland	\$	29,896,265	\$	-
ATOS SE	France	\$	29,524,884	\$	-
AXA S.A.	France	\$	158,434,215	\$	-
BOOKER GROUP PLC	United Kingdom	\$	9,996,305	\$	-
Brenntag AG	Germany	\$	39,245,305	\$	-
CAPITA PLC	United Kingdom	\$	24,028,276	\$	-
CK Hutchison Holdings Limited	Hong Kong	\$	81,499,807	\$	-
DANSKE BANK A/S	Denmark	\$	-	\$	751,275
DEBENHAMS PLC	United Kingdom	\$	3,727,827	\$	-
DFDS A/S	Denmark	\$	8,326,769	\$	-
DIAGEO PLC	United Kingdom	\$	15,161,936	\$	-
ESSILOR INTERNATIONAL S.A.	France	\$	67,924,783	\$	-
G4S PLC	United Kingdom	\$	9,213,203	\$	-
Getinge AB	Sweden	\$	12,368,211	\$	-
GLAXOSMITHKLINE PLC	United Kingdom	\$	264,249,507	\$	-
HCL TECHNOLOGIES LIMITED	India	\$	31,813,372	\$	-
Heineken N.V.	Netherlands	\$	54,373,019	\$	-
ISS A/S	Denmark	\$	15,978,622	\$	-
J D WETHERSPOON PLC	United Kingdom	\$	2,359,497	\$	-
JOHNSON CONTROLS INTERNATIONAL PLC	Ireland	\$	90,341,903	\$	-
LADBROKES CORAL GROUP PLC	United Kingdom	\$	10,502,510	\$	-
LafargeHolcim Ltd	Switzerland	\$	78,694,127	\$	-
LOOKERS PLC	United Kingdom	\$	1,300,593	\$	-
MICRO FOCUS INTERNATIONAL PLC	United Kingdom	\$	19,202,527	\$	-
MITIE GROUP PLC	United Kingdom	\$	3,211,903	\$	-
MOTHERCARE PLC.	United Kingdom	\$	484,917	\$	-
RANDSTAD HOLDING nv	Netherlands	\$	16,445,171	\$	-
RENTOKIL INITIAL PLC	United Kingdom	\$	17,817,442	\$	-
ROLLS-ROYCE HOLDINGS PLC	United Kingdom	\$	51,853,051	\$	-
RYOBI LIMITED	Japan	\$	1,652,325	\$	-
Sensata Technologies Holding N.V.	Netherlands	\$	9,484,325	\$	-
Siemens Aktiengesellschaft	Germany	\$	350,362,179	\$	-
SIEMENS LIMITED	India	\$	1,961,718	\$	-
SKY PLC	United Kingdom	\$	51,962,995	\$	-
SODEXO S.A.	France	\$	41,052,567	\$	-
Steinhoff International Holdings N.V.	Netherlands	\$	20,991,619	\$	-
TATA STEEL LIMITED	India	\$	12,101,627	\$	-
TELEPERFORMANCE SE	France	\$	37,848,421	\$	-
TERUMO CORPORATION	Japan	\$	25,692,517	\$	-
TESCO PLC	United Kingdom	\$	48,668,655	\$	-
ThyssenKrupp AG	Germany	\$	33,904,671	\$	-
TUI AG	Germany	\$	2,887,628	\$	-
UDG HEALTHCARE PUBLIC LIMITED COMPANY	Ireland	\$	12,214,886	\$	-
VEOLIA ENVIRONNEMENT S.A.	France	\$	30,398,543	\$	-
VIRGIN MONEY HOLDINGS (UK) PLC	United Kingdom	\$	2,429,381	\$	-
WILLIAM HILL PLC	United Kingdom	\$	8,385,654	\$	-
Willis Towers Watson Public Limited Company	United Kingdom	\$	31,128,942	\$	-
WOLSELEY PLC	Switzerland	\$	91,481,524	\$	-
BROADSOFT, INC.	US	\$	3,504,146	\$	-

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<b>Company Name</b>	<b>Country</b>	<b>Equity Exposure Market Value</b>	<b>Fixed Income Exposure Market Value</b>
CATERPILLAR INC.	US	\$ 148,951,754	\$ -
CONVERGYS CORPORATION	US	\$ 9,649,256	\$ -
CRANE CO.	US	\$ 13,432,278	\$ -
CRAWFORD & COMPANY	US	\$ 98,488	\$ -
FORTIVE CORPORATION	US	\$ 36,508,301	\$ -
GREAT ELM CAPITAL GROUP, INC.	US	\$ -	\$ -
HILTON WORLDWIDE HOLDINGS INC.	US	\$ 54,228,722	\$ -
MCDONALD'S CORPORATION	US	\$ 327,054,945	\$ -
MCKESSON CORPORATION	US	\$ 98,202,640	\$ -
Schlumberger N.V.	US	\$ 309,493,176	\$ -
THE BLACKSTONE GROUP L.P.	US	\$ 29,505,948	\$ -
THE ESTEE LAUDER COMPANIES INC.	US	\$ 39,120,199	\$ -
UNITED TECHNOLOGIES CORPORATION	US	\$ 232,661,215	\$ -
BABCOCK INTERNATIONAL GROUP PLC	United Kingdom	\$ -	\$ 109,372
	<b>TOTAL:</b>	\$ 3,264,997,189	\$ 860,647