

Identified Person	Role in Euroclear SA/NV	Company	Registered Office Address	Activity	if listed (Y/N) - Exchange	if participating interest >5%	Function	Executive (Y/N)	Start date (dd/mm/yy)
Euroclear SA Members of the Board									
Autheman, Marc Antoine	Chairman	Cube Infrastructure Fund	Avenue de la Liberté, 41 L-1931 Luxembourg LUXEMBOURG	financial services	N	N	Chairman of the Board, Independent Director	N	01/12/2007
		Third Point Offshore Investors Limited	Trafalgar Court, Les Banques, St Peter Port GY1 3QL Guernsey CHANNEL ISLANDS	financial services	Y - LSE	N	Chairman of the Board, Independent Director	N	01/06/2007
		Agence France Tresor (AFT)	Ministère de l'Économie, des Finances et du Commerce extérieur 139 rue de Bercy Teledoc 287 75572 Paris cedex 12 FRANCE	financial services	N	N	Member of the Strategic Committee	N	TBC
Berthezène, Michel	Non-Executive Director	Caisse des Dépôts et Consignations	56 rue de Lille 75356 Paris FRANCE	financial services	N	N	Member of the Board, Advisor to the CEO	Y	01/07/2007
		Alfa Finance	Avenue Marceau, 55 75116 Paris FRANCE	financial services	N	N	Member of the Board	N	01/04/2010
Boets, Inge	Non-Executive Director	QRF Management NV	Leopold De Waelplaats 8, Box 1 2000 Antwerp, BELGIUM	management services	N	N	Chairman of the Board, Independent Director	N	26/11/2013
		Econopolis Wealth Management NV	Joe Englischstraat 54 2140 Antwerp (Borgerhout) BELGIUM	wealth management services	N	N	Member of the Board, Independent Director	N	26/12/2013
		Ontex Group SA/NV	Korte Keppestraat 21/31 9320 Erembodegem (Aalst) BELGIUM	hygiene	Y - Euronext Brussels	N	Member of the Board, Independent Director	N	02/06/2014
		Vanbreda Risk & Benefits	Plantin en Moretuslei 297 2140 Antwerp BELGIUM	insurance	N	N	Member of the Board, Independent Director	N	07/04/2015
		La Scoperta bvba	Hopland 50 2000 Antwerp BELGIUM	commercial food & wine business	N	N	Owner/Manager	Y	01/04/2011
Burke, Cian	Non-Executive Director	HSBC Bank Plc	8 Canada Square London E14 5HQ ENGLAND	financial services	Y - LSE/NYSE/Euronext/HKEX	N	Head of Securities Services	Y	10/02/2015
Carey, Anthony	Non-Executive Director	State Street International Ireland Ltd.	78 Sir John Rogerson's Quay Dublin 2 IRELAND	financial services	Y - NYSE	N	Executive Vice President & COO EMEA	Y	01/05/2013
		State Street Bank UK	20 Churchill Place Canary Wharf London E14 5HJ ENGLAND	financial services	Y - NYSE	N	Vice Chair of the UK Executive Committee	Y	01/05/2013
		State Street Bank International GMBH, Succursale Italia	Via Ferrante Aporti, 10 20125 Milan ITALY	financial services	Y - NYSE	N	Director	N	01/05/2010
		State Street Bank International GMBH, Poland Branch	Centrum Biurowe Kazimierz Podgórska 36 31-536 Kraków POLAND	financial services	Y - NYSE	N	Director	N	01/04/2008
Colle, Patrick	Non-Executive Director	BNP Paribas Securities Services	9 rue du Débarcadère F-93500 Pantin FRANCE	financial services	Y - Euronext/LSE/	N	General Manager	Y	01/05/2010
Devine, John	Non-Executive Director	Citco Custody Limited	Level 2 West, Mercury Tower, The Exchange Financial & Business Centre Ella Zammit Street St Julians STJ3155 MALTA	fund administration	N	N	Member of the Board	N	01/03/2013
		GE Capital International Holdings Limited	The Ark, 201 Talgarth Road London W6 8BJ ENGLAND	holding	N	N	Member of the Board, Audit & Finance Committee Chair	N	01/08/2015
		Standard Life PLC	Standard Life House 30 Lothian Road Edinburgh EH1 2DH SCOTLAND	life insurance	Y - LSE	N	Member of the Board Risk & Capital Committee & Remuneration Committee Chair	N	04/07/2016
		Standard Life Investments	1 George Street Edinburgh EH2 2LL SCOTLAND	asset management	N	N	Chairman of the Board	N	01/09/2012 Chairman as from 28/04/2015

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Garvin, Mark	Non-Executive Director	JPMorgan plc	25 Bank Street London E14 5JP ENGLAND	financial services	Y	N	Vice Chairman, Corporate and Investment Bank	Y	01/09/2004
		British Bankers Association	Pinners Hall 105-108 Old Broad Street London EC2N 1EX, ENGLAND	professional financial association	N	N	Deputy Chairman of the Board	N	14/07/2008
		J.P. Morgan Bank Luxembourg SA	6 Route de Treves, Building C, 1st Floor, Senningerberg, L-2633 LUXEMBOURG	financial services	N	N	Chairman of the Board	N	15/12/1997
		JP Morgan AG	Junghofstrasse 14 60311 Frankfurt-am-Main, GERMANY	financial services	N	N	Chairman of the Board	N	22/06/1998
		JP Morgan Securities Limited	125 London Wall EC2Y 5AJ London ENGLAND	financial services	N	N	Member of the Board	N	08/09/2011
		Association of Foreign Banks	1 Bengal Court EC3V 9DD London ENGLAND	professional financial association	N	N	Member of the Board	N	01/12/2002
		British American Business Inc. Of New York and London	52 Vanderbilt Avenue 20th floor NY 10017 New York U.S.A.	transatlantic business service organisation	N	N	Member of the Board	N	01/06/2003
		JP Morgan Chase Pension Plan Trustee Limited	25 Bank Street Canary Wharf London E14 5JP ENGLAND	pension fund management	N	N	Member of the Board	N	02/10/1996
Hennebelle, Isabelle	Non-Executive Director	Goldman Sachs	Christchurch Court 10-15 Newgate Street London EC1A 7HD ENGLAND	financial services	N	N	Member of the Board	Y	01/03/2014
Isaac, Tom	Non-Executive Director	Citigroup	33 Canada Square Canary Wharf London E14 5LB ENGLAND	financial services	Y - NYSE	N	Co-Head of Financial Institutions Group in Europe Middle East and Africa	Y	10/02/2015
Kurabe, Masashi	Non-Executive Director	Mitsubishi UFJ Global Custody (MUGC) S.A.	287-289 Route d'Arion 1150 LUXEMBOURG	financial services	N	N	Deputy Managing Director	Y	18/04/2014
La Salla, Francis	Non-Executive Director	Pershing LLC	One Pershing Plaza NJ 07399 Jersey City U.S.A.	financial services	Y - NYSE	N	Managing Director, Member of the Board	Y	02/07/2003
		Pershing LLC	Capstan House, 1 Clove Crescent, East India Dock E14 2BH London ENGLAND	financial services	Y - NYSE	N	Chief Executive Officer & Chairman, Member of the Board	Y	02/07/2003
		BNY International Financing Corporation	One Wall Street, NY 10286 New York U.S.A.	financial services	Y - NYSE	N	Member of the Board	N	26/04/2005
		Financial Industry Regulatory Authority (FINRA)	1735 K Street 20006 Washington DC, U.S.A.	regulator	N	N	Member of the Board of Arbitrators	N	01/01/1991
		Pershing Securities Australia Pty. Ltd.	Level 7, 1 Chifley Square 2000 Sydney, New South Wales AUSTRALIA	financial services	Y - NYSE	N	Member of the Board	N	08/12/2011
		Pershing Securities International Limited	2nd Floor, Hanover Building, Windmill Lane Dublin 2 IRELAND	financial services	Y - NYSE	N	Member of the Board	N	02/07/2003
		Pershing Securities Singapore Private Ltd.	1 Temasek Avenue, 02-01 Millenia Tower 039192 SINGAPORE	financial services	N	N	Member of the Board	N	16/01/2009
		Pershing Securities Canada Limited	320 Bay Street, 10th Floor Toronto, Ontario M5H 4A6 CANADA	financial services	Y - Toronto Stock Exchange	N	Chief Executive Officer, Member of the Board	Y	20/11/2009
Pershing Holdings (UK) Limited	Capstan House, 1 Clove Crescent, East India Dock E14 2BH London ENGLAND	financial services	Y - NYSE	N	Member of the Board	N	29/04/2003		
Liu, Xiaochi	Non-Executive Director	Kuri Atyak Investment Ltd.	Kuri Atyak Investment Ltd. PO Box 957 Offshore Incorporations Centre Road Town, Tortola BRITISH VIRGIN ISLANDS	financial services	N	N	Deputy Director General	Y	01/12/2001

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Marion, François	Non-Executive Director	CACEIS	1-3 Place Valhubert F-75206 Paris Cedex 13 FRANCE	financial services	N	N	Chief Executive Officer, Member of the Board	Y	30/06/2004
		Sicovam Holding	18 Rue Lafayette 75009 Paris FRANCE	financial holding	N	N	Chairman of the Board	N	15/11/2009
Nyblaeus, Nils-Fredrik	Non-Executive Director	Austin Healey Club of Sweden	Bällingsvägen 15 125 41 Älvsjö SWEDEN	private club	N	N	Member of the Board	N	01/01/2007
		Skandinaviska Enskilda Banken AB	Kungsträdgårdsgatan 8 106 40 Stockholm SWEDEN	financial services	Y - STO	N	Senior Advisor to the Board of Directors	N	01/12/2006
		Bankgirot AB	Palmfeldtsvagen 11, via Hallvagen Johanneshov 106 40 Stockholm SWEDEN	clearing & settlement	N	N	Chairman of the Board	N	01/04/2007
		Upplysningscentralen AB	UC AB 117 88 Stockholm Stockholm SWEDEN	IT	N	N	Chairman of the Board	N	01/03/2009
		SEB Trygg Liv Gamla AB	Sergels Torg 2 106 40 Stockholm SWEDEN	life insurance	N	N	Member of the Board	N	01/04/2005
		SEB Trygg Liv Holding AB	Sergels Torg 2 106 40 Stockholm SWEDEN	life insurance	N	N	Member of the Board	N	01/04/2007
		Fondförsäkringsaktiebolaget SEB Trygg Liv	Sergels Torg 2 106 40 Stockholm SWEDEN	life insurance	N	N	Member of the Board	N	01/04/2007
		Landshypotek AB	Regeringsgatan 48 SE-104 41 Stockholm SWEDEN	financial services	N	N	Member of the Board, Audit Committee & Credit Committee Member	N	01/06/2011
Passacantando, Franco	Non-Executive Director	Salini Impregilo Spa	Via dei Missaglia, 97 20142 Milano ITALY	industrial	Y	N	Member of the Board	N	12/09/2013
		World Bank Treasury	1225 Connecticut Avenue NW Washington, DC 20433 U.S.A.	financial services	N	N	Member of the External Client Asset Management Oversight Committee	N	01/01/2013
		European Investment Bank	98-100, boulevard Konrad Adenauer L-2950 LUXEMBOURG	financial services	N	N	Expert to the Board of Directors (alternate)	N	01/07/2013
Prigent, Bruno	Non-Executive Director	Societe Generale - Securities Services France (SGSS)	10 Passage de l'Arche F-92800 Puteaux FRANCE	financial services	Y - Euronext Paris	Y	Directeur du Métier Titres, Member of the Supervisory Board	Y	01/10/2011
		SBI-SG Global Securities Services Pvt. Limited	Jeevan Seva Extension Building Ground Floor S.V. Road Santa Cruz w 400 054 Mumbai INDIA	financial services	Y - LSE	N	Member of the Board	N	01/10/2011
		SG Global Solution Center	10th Floor Voyager Building ITPB Whitefield Road Bangalore INDIA	financial services	N	N	Member of the Board	N	04/11/2011
		EFS (Luxembourg)	Boulevard Royal, 18 L-2449 LUXEMBOURG	financial services	N	N	Chairman of the Board	N	31/03/2006
		SGSS Deutschland KAG	Aplanstraße 5, 85774 Unterföhring GERMANY	financial services	N	N	Chairman of the Supervisory Board	N	31/11/2008
		SGSS (Ireland) Limited	3rd floor, IFSC House, IFSC IE 1 Dublin IRELAND	financial services	N	N	Member of the Board	N	01/07/2008
		SGSS Holding	17 cours Valmy F-92800 Puteau FRANCE	financial services	N	N	Member of the Board	N	03/03/2006
		SGSS Hong Kong Trust	3 Pacific Place Level 28 1 Queen's Road East HONG KONG	financial services	N	N	Member of the Board	N	28/05/2008

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		SGSS NAV	10 Passage de l'arche F-92800 Puteaux FRANCE	financial services	N	N	Member of the Supervisory Board	N	07/11/2001
		Société Générale Securities Services Luxembourg	28-32 Place de la Gare L-1616 LUXEMBOURG	financial services	N	N	Member of the Board	N	29/11/2002
		Société Générale Bank & Trust	11, Avenue Emile Reuter L-2420 LUXEMBOURG	financial services	N	N	Member of the Board	N	01/12/2011
		SG EURO CT	Batiment B-1 Perspective Defense 1-5 Rue du Debarcadere F-92700 Colombes FRANCE	financial services	N	N	Chairman of the Board	N	15/12/2011
		SGSS/SpA (Italy)	Maclachini Center - MAC 2 Via Benigno Crespi 19/A 20159 Milan ITALY	financial services	N	N	Chairman of the Board	N	28/09/2006
		SG Securities (Singapore) Pte. Ltd.	80 Robinson Road #21-00 068898 SINGAPORE	financial services	N	N	Member of the Board	N	28/05/2008
Singh, Satvinder	Non-Executive Director	Deutsche Bank	Winchester House 1 Great Winchester Street London EC2N 2DB ENGLAND	financial services	Y	N	Managing Director, Global Head, Trust & Securities Services and Cash Management Financial Institutions	Y	01/11/2011
		Deutsche Bank AS	Esentepe Mahallesi Büyükdere Caddesi Tekfen Tower No: 209 K: 17-18 Şişli 34394 Istanbul TURKEY	financial services	N	N	Member of the Board	N	27/07/2012
Woodman, Clare	Non-Executive Director	Morgan Stanley International Limited	25 Cabot Square Canary Wharf E14 4QA London ENGLAND	financial services	N	N	Managing Director and Member of the Board	Y	12/03/2009
		Morgan Stanley & Co International plc	25 Cabot Square Canary Wharf E14 4QA London ENGLAND	financial services	N	N	Managing Director and Member of the Board	Y	12/03/2009
		Morgan Stanley & Co International plc	61, rue de Monceau 75008 Paris FRANCE	financial services	N	N	Member of the Board	N	29/07/2010
		Morgan Stanley Saudi Arabia	Al Ma'ather Street, Al Rashid Tower, Floor 10 11586 Riyadh SAUDI ARABIA	financial services	N	N	Member of the Board	N	06/04/2010
		OOO Morgan Stanley Bank (Russia)	21 1st Tverskaya-Yamskaya Street Moscow 125047 RUSSIA	financial services	N	N	Member of the Board	N	09/02/2010
		Morgan Stanley Smith Barney Holdings (UK) limited	20 Bank Street, Canary Wharf E14 4AD London ENGLAND	financial services	N	N	Member of the Board	N	12/05/2009
		Morgan Stanley Foundation	20 Bank Street, Canary Wharf E14 4AD London ENGLAND	charity	N	N	Trustee Member of the Board	N	09/10/2008
		UK Banking Standards Board	3rd Floor, 75 King William Street, EC4N 7BE London ENGLAND	independent professional advisory body	N	N	Member of the Board	N	01/04/2015
		AFME (Association for Financial Markets in Europe)	St. Michaels's House 1 George Yard EC3V 9DH London ENGLAND	professional advisory body	N	N	Member of the Board	N	23/04/2013
Wymeersch, Eddy	Deputy Chairman	Law & Finance	Brugstraat 9921 Lovendegem BELGIUM	legal & financial advisory services	N	N	Executive Director and Member of the Board	Y	01/08/2010
		Wetenschappelijke Studies	Brugstraat 9921 Lovendegem BELGIUM	research	N	N	Executive Director and Member of the Board	Y	01/08/2010
		Association for Financial Markets in Europe (AFME)	St. Michaels's House 1 George Yard EC3V 9DH London ENGLAND	professional advisory association	N	N	European Advisor and Member of the Board	N	01/09/2012
Euroclear SA Management Committee									
Howell, Tim	CEO and Chairman of the Management Committee, Board Executive Director	No reportable external functions							

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Hannequart, Frederic	COO and Management Committee Member, Board Executive Director	United Fund of Belgium	Avenue Adele 1 1310 La Hulpe BELGIUM	charity	N	N	Member of the Board	N	27/05/2010
		Society for Worldwide Interbank Financial Telecommunication (S.W.I.F.T.)	Avenue Adele 1 1310 La Hulpe BELGIUM	financial services	N	N	Member of the Board	N	10/12/2014
		Belgian Bankers and Stockbroking Association asbl/vzw (ABB/BVB)	Rue d'Arlon 82 1040 Brussels BELGIUM	banking association	N	N	Member of the Board	N	01/01/2015
		Vredencentrum van de Stad ende Provincie Antwerpen vzw	Lombardenvest 23 2000 Antwerp BELGIUM	charity	N	N	Member of the Board	N	04/03/2015
		HetPaleis	Meistraat 2, 2000 Antwerp BELGIUM	cultural public foundation	N	N	Member of the Board	N	17/07/2015
Mostrey, Lieve	CIO and Member of the Management Committee, Board Executive Director	Euronext N.V.	Beursplein 5 1012 JW Amsterdam THE NETHERLANDS	stock exchange	N	Y	Member of the Supervisory Board	N	19/12/2014
		Belgian Finance Club (BFC)	Boulevard Louis Schmidt 117 1040 Brussels BELGIUM	financial advisory body	N	N	Member of the Board	N	22/09/2015
		RealDolmen	A. Vaucampsiaan 42 1654 Hulzingen BELGIUM	ICT	Y	N	Member of the Board	N	01/07/2013
Frenay, Bernard	Chief Financial Officer, Management Committee Member	Taskize Limited	Watling House 33 Cannon Street EC4M 5SB, London ENGLAND	technology	N	N	Chief Financial Officer & Executive Director	Y	29/04/2015
Poulet, Yves	Managing Director - Head of Corporate Technology	Inkendaal - Koninklijke Instelling	Inkendaalstraat 1 1602 Sint-Pieters-leeuw (Vlezenbeek) BELGIUM	health care	N	N	Member of the Board	N	01/01/1998
		TransConstellation asbl	Rue Montoyer 46 1000 Brussels BELGIUM	promoting Belgium as (transaction-processing centre)	N	N	Member of the Board	N	14/01/2011
Urbain, Valerie	Management Committee Member	European Central Securities Depositories Association (ECSDA)	Rond Point Schuman 6, bte. 9 1040 Brussels BELGIUM	association	N	N	Member of the Board	N	01/11/2009
		Association Francaise des Professionnels des Titres (AFTI)	36, rue Taitbout 75009 Paris FRANCE	association	N	N	Member of the Board	N	25/09/2009
		Solvay Brussels School of Economics and Management asbl	UIR CP 145-01 Avenue FD Roosevelt 1050 Brussels BELGIUM	education	N	N	Member of the International Advisory Board	N	28/11/2014
		Woman on Board ASBL	L'Arsenal Boulevard Louis Schmidt 29 1040 Brussels BELGIUM	body promoting gender diversity	N	N	Member	N	15/09/2010
Van de Velde, Jo	Managing Director - Head of Product Management Division	International Securities Services Association (ISSA)	UBS AG Europastrasse 1 CH-8152 Opfikon SWITZERLAND	professional advisory association	N	N	Member of the Operating Committee	N	13/02/2014
Sneyers, Peter	Group Chief Risk Officer	No reportable external functions							
Other Reportable Functions - Division Heads									
Ben Rais, Karim	Managing Director - Head of Application Development and Maintenance Division	No reportable external functions							
Debarre, Fabien	Managing Director, Head of Legal Division - General Counsel	No reportable external functions							
Frenay, Bernard	Chief Financial Officer	Taskize Limited	Watling House 33 Cannon Street EC4M 5SB, London ENGLAND	technology	N	N	Chief Financial Officer & Executive Director	Y	29/04/2015

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Goemans, Pierre Yves	Managing Director - Head of Commercial Division	International Securities Services Association (ISSA)	UBS AG Europastrasse 1 CH-8152 Opfikon SWITZERLAND	professional advisory association	N	N	Member of the Board	N	13/02/2014
		Plateau96 ASBL	Rue du Duc 96 1150 Woluwe-Saint-Pierre, BELGIUM	creative arts workshop	N	N	Chairman of the Board	N	06/05/2013
		Ateliers Indigo du Plateau96 ASBL	Rue du Duc 96 1150 Woluwe-Saint-Pierre, BELGIUM	creative arts workshop	N	N	Member of the Board	N	29/01/2015
Miseur, Daniel	Managing Director - Head of Human Resources Division	No reportable external functions							
Sucaet, Peter	Managing Director - Head of Strategy Division	No reportable external functions							
Thire, Anso	Managing Director - Head of Business Development for the Group	No reportable external functions							
Other Reportable Functions - Branch Managers									
Becka, Liza	Branch Manager - Amsterdam	No reportable external functions							
Monfort, Sophie	Branch Manager - Paris	No reportable external functions							