

Officers & Board Members of ICE & Subsidiaries

ICE

IntercontinentalExchange, Inc.

Directors: Charles Crisp, Fred Hatfield, Jean-Marc Forneri, Terrence Martell, Sir Bob Reid, Frederik Salerno, Fred Schoenhut. Jeffrey Sprecher, Judith Sprieser, Vincent Tese

Officers	TITLE
Jeffrey C. Sprecher	Chairman & CEO
Charles A. Vice	President & COO
Scott A. Hill	SVP, CFO
Johnathan H. Short	SVP, General Counsel & Corporate Secretary
David Goone	SVP, Chief Strategic Officer
Edwin Marcial	SVP, Chief Technology Officer
Doug Foley	V.P. Human Resources
Dean S. Mathison	V.P. & Corporate Comptroller
Andrew J. Surdykowski	V.P., Assoc. General Counsel and Asst. Corporate Secretary

ICE Data Investment Group, LLC (formerly The 10x Investment Group, LLC)

Sole member is IntercontinentalExchange, Inc.

NAME	TITLE
Scott A. Hill	Manager
Johnathan H. Short	Manager
Martin Wadhvani	Manager

ICE Data, LP (formerly The 10x Group, L.P.)

General partner is ICE Data Management Group, LLC and limited partner is ICE Data Investment Group, LLC

ICE Data Management Group, LLC (formerly The 10x Management Group, LLC)

Sole stockholder is IntercontinentalExchange, Inc.

NAME	TITLE
Scott A. Hill	Manager
Johnathan H. Short	Manager
Martin Wadhvani	Manager

Officers & Board Members of ICE & Subsidiaries

ICE International, Inc.

Board Members – C. Vice, S. Hill and J. Short

Sole stockholder is IntercontinentalExchange, Inc.

NAME	TITLE
Scott A. Hill	President and Treasurer
Johnathan H. Short	Secretary
Andrew J. Surdykowski	Asst. Secretary

ICE Markets, Inc. (formerly ICE Services, Inc.)

Board Members – Jeffrey Sprecher, Charles Vice and Edwin Marcial

Sole stockholder is IntercontinentalExchange, Inc.

NAME	TITLE
Scott A. Hill	President and Treasurer
Johnathan H. Short	Secretary
Andrew J. Surdykowski	Asst. Secretary

ICE Markets Corporation

(Canadian subsidiary) (Formerly

IntercontinentalExchange Services Canada Corp.)

Board Members – C. Vice, S. Hill & J. Short

Sole stockholder is ICE Markets, Inc.

NAME	TITLE
Scott A. Hill	President and Treasurer
Johnathan H. Short	Secretary
Andrew J. Surdykowski	Asst. Secretary

Officers & Board Members of ICE & Subsidiaries

ICE UK

IntercontinentalExchange Holdings

Stockholders: ICE Netherlands C.V.
IntercontinentalExchange Int'l, Inc.

Board Member:
Johnathan Short
Scott A Hill
David John Peniket

ICE Markets Ltd,

Sole Stockholder: IntercontinentalExchange Holdings

Board Member:
Robert Paul Reid
Martin Wadhvani
Jeffrey Craig Sprecher

ICE Futures Europe

Sole Stockholder: ICE Futures Holdco No.1 Ltd
(share held in trust by ICE Futures Holdco No. 2 Ltd)

Board Member
Peter Lovat Fraser, Lord Fraser of Carmyllie
Scott A Hill
Robert Emile Mabro
Peter Harrison Nicholls
David John Peniket
Sir Robert Paul Reid
Jeffrey Craig Sprecher

Officers & Board Members of ICE & Subsidiaries

ICE Clear Europe Ltd

Sole Stockholder: IntercontinentalExchange Holdings

Board Member:
Scott A Hill
Peter Lovat Fraser, Lord Fraser of Carmyllie
Sir Robert Paul Reid
Jeffrey Craig Sprecher
Paul David Swann
Christopher John Moorhouse

ICE Clear UK Ltd

Sole Stockholder: IntercontinentalExchange Holdings

Board Member:
Claire Wright
Scott A Hill

ICE Futures Holdings Ltd.

Sole Stockholder: IntercontinentalExchange Holdings

Board Member:
Scott A Hill
David John Peniket

IntercontinentalExchange Technologies Ltd.

Sole Stockholder: IntercontinentalExchange Holdings

Board Member;
Johnathan Short
Scott A Hill

International Petroleum Exchange of London Ltd.

Sole Stockholder: IntercontinentalExchange Holdings

Board Member:
David John Peniket

IPE Holdings Ltd.

Sole Stockholder: IntercontinentalExchange Holdings

Board Member:
David John Peniket

Officers & Board Members of ICE & Subsidiaries

ICE Education Ltd.

Sole Stockholder: ICE Futures Holdings Ltd

Board Member:

David John Peniket

International Petroleum Exchange Ltd.

Sole Stockholder: ICE Futures Holdings Ltd

Board Member:

David John Peniket

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ICE Futures Holdco No. 2 Ltd.

Sole Stockholder: ICE Futures Holdings Ltd

Board Member

David John Peniket

Claire Lesley Wright

Scott A Hill

ICE Futures Holdco No. 1 Ltd

Sole Stockholder: ICE Futures Holdings Ltd

Board Member

Peter Lovat Fraser, Lord Fraser of Carmyllie
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Scott A Hill

Robert Emile Mabro

Peter Harrison Nicholls

David John Peniket

Sir Robert Paul Reid

Jeffrey Craig Sprecher

ICE Futures Ltd.

Sole Stockholder: ICE Futures Europe

Board Member:

David John Peniket

Officers & Board Members of ICE & Subsidiaries

ICE Data Services Ltd.

Sole Stockholder: ICE Futures Holdings Ltd

Board Member

Board Member:
David John Peniket

ICE Data Holdings Ltd.

Joint Stockholders: ICE Data Services Ltd and IntercontinentalExchange Holdings

Board Member:
Johnathan Short
Jeffrey Craig Sprecher
Charles Allen Vice
Scott A Hill

ICE Data LLP

Designated Members: ICE Data Holdings Ltd and IntercontinentalExchange Holdings

Board Member N/A

Name
N/A
N/A
N/A

Officers & Board Members of ICE & Subsidiaries

ICE FUTURES U.S.

ICE Futures U.S., Inc. (f/k/a NYBOT f/k/a CFC Acquisition Co.)

Board Members: Frederick Schoenhut, Terrence Martell, Scott A. Hill, Maxine Champion, Christopher A. Dunn, Thomas W. Farley, Fred Hatfield, Hugh Lamle, Jeffrey C. Sprecher

Sole stockholder is IntercontinentalExchange, Inc.

NAME	TITLE
Thomas W. Farley	President & COO
Audrey Hirschfield	SVP, General Counsel & Corporate Secretary
Andrew Surdykowski	Assistant Secretary

ICE Clear U.S., Inc. (f/k/a New York Clearing Corp.)

Board Members: – Thomas W. Farley, Ira Polk, Thomas Hammond, Scott Hill, Jonathan Kleisner, and Terrence Martell

Sole stockholder is ICE Futures U.S.

Name	Title
Thomas J. Hammond	President & COO
Brian Saylor	Vice President and Secretary
Andrew Surdykowski	Assistant Secretary

eCOPS, LLC

Sole Shareholder: ICE Futures US, Inc.

Board Managers: Thomas Farley, Fred Schoenhut and Terrence Martell

NAME	TITLE
Thomas W. Farley	President
Andrew Surdykowski	Assistant Secretary

New York Futures Exchange, Inc

Board Members – Tom Farley, Tom Greene, Audrey Hirschfeld

Sole stockholder is ICE Futures US, Inc.

Name	Title
Thomas Farley	President
Audrey Hirschfeld	Sr. VP & General Counsel
Jill Fassler	VP & Secretary
Andrew Surdykowski	Asst. Secretary

Officers & Board Members of ICE & Subsidiaries

CANADA

5509794 Manitoba Inc.

Board Members: Warren Florness, Johnathan Short, Chuck Vice

Sole Stockholder: ICE Netherlands BV

Name	Title
Brad Vannan	President
Linda Vincent	Secretary
Douglas Betz	Managing Director
Scott A. Hill	Officer
Jimmy Namkung	Officer

ICE Futures Canada, Inc.

Board Members: J. Sprecher, S. Hill, D. Goone, B. Vannan, L. De Jaeger, B. Hayward, T. Wright, Q.C.

Sole Stockholder: 5509794 Manitoba, Inc.

Name	Title
Brad Vannan	President
Linda Vincent	Secretary
Douglas Betz	Officer
Jimmy Namkung	Officer

ICE Clear Canada (f/k/a WCE Clearing Corp.)

Board Members: J. Sprecher, S. Hill, D. Goone, B. Vannan, L. De Jaeger, B. Hayward, T. Wright, Q.C.

Sole Stockholder: ICE Futures Canada, Inc.

Name	Title
Brad Vannan	President
Linda Vincent	Secretary
Douglas Betz	Officer
Jimmy Namkung	Officer

Canadian Climate Exchange Inc.

Board Members: J. Sprecher, S. Hill, D. Goone, B. Vannan

Sole Stockholder: ICE Futures Canada, Inc.

Name	Title
Brad Vannan	President
Steve Teller	Secretary & Project Mgr.
Jimmy Namkung	Officer

ICE Services Canada Inc.

Board Member: J. Sprecher, S. Hill, D. Goone, B. Vannan

Sole Stockholder: ICE Futures Canada, Inc.

Name	Title
Brad Vannan	President
Linda Vincent	Secretary
Douglas Betz	Officer
Jimmy Namkung	Officer

Officers & Board Members of ICE & Subsidiaries

NETHERLANDS

ICE Netherlands B.V.

Directors: Johnathan Short, Charles Vice and Warren Florness

(A) Managing directors U.S.:
- ICE International Inc

(B) Managing Directors Netherlands:
- Fortis Intertrust (Nederland) BV
- Yvonne Theuns

(All documents that need to be signed on behalf of the BV need to be signed by an A and a B director. This dual signature system is a tax requirement)

ICE Netherlands C.V.

General Partner: ICE International, Inc.

Limited Partner: ICE Markets

Chatham Energy, LLC

Board Members: Scott Hill, David Goone, Johnathan Short

Sole stockholder is IntercontinentalExchange, Inc.

Name	Title
David Goone	Manager

YellowJacket, Inc. FKA PH Merger Sub

Board Members: Charles A. Vice, Scott A. Hill & Johnathan H. Short

Sole stockholder is IntercontinentalExchange, Inc.

Name	Title
Scott A. Hill	President/Treasurer
Johnathan H. Short	Secretary
Andrew J. Surdykowski	Assistant Secretary

Officers & Board Members of ICE & Subsidiaries

Creditex

Creditex Group, Inc. (US)

Board Members: Charles A. Vice, Scott A. Hill & Johnathan H. Short

Sole stockholder is Creditex Holdco Ltd.

Name	Title
Sunil Hirani	CEO
John Grifonetti	President & COO
Sophia Corona	CFO & Treasurer
Mazy Dar	CSO
F Charles Doerr	CTO
Scott A. Hill	Secretary
Andrew J. Surdykowski	Asst. Secretary
Michael Di Stephan	Asst. Secretary

Creditex Holdco Ltd

Sole Stockholder: IntercontinentalExchange, Inc

Patrick Davis - Secretary

Board Members:
Scott A Hill
Johnathan Short
Grant Greville Biggar

Creditex LLC (US)

Sole Shareholder: Creditex Group Inc.

Name	Title
Sole Shareholder: Creditex Group Inc.	
Charles A. Vice	Manager
Scott A. Hill	Manager
Johnathan H. Short	Manager

CreditTrade, Inc. (US)

Creditex Group Inc. is sole shareholder

Directors: Charles Vice, Scott Hill, Johnathan Short

Name	Title
Sunil Hirani	CEO
John Grifonetti	President & Chief Operating Officer
Sophia Corona	Treasurer
Scott A. Hill	Secretary
Andrew J. Surdykowski	Asst. Secretary
Michael Di Stephan	Asst. Secretary

Officers & Board Members of ICE & Subsidiaries

Creditex Securities Corp. (US)

Directors: Charles Vice, Scott Hill, Johnathan Short

Name	Title
Sunil Hirani	CEO
John Grifonetti	COO
Cathy O'Connor	President
Sophia Corona	Treasurer
Scott A. Hill	Secretary
Andrew J. Surdykowski	Asst. Secretary
Michael DiStephan	Asst. Secretary

ICE Processing, LLC (US)

Directors: S. Hirani, J. Grifonetti, Clive de Ruig

Name	Title
Sunil Hirani	CEO
Sophia Corona	Treasurer
Michael Di Stephan	Secretary
Andrew Surdykowski	Asst. Secretary

Creditex Holdco, LLC (US)

Sole stockholder is IntercontinentalExchange, Inc.

Name	Title
Scott A. Hill	Manager
Johnathan Short	Manager
Andrew Surdykowski	Manager & Asst. Secretary

Creditex Singapore PTE LTD.

Directors: Sunil Hirani, Grant Biggar, Mathew Barclay Moffat, Troy Ivan

Name	Title
Sunil Hirani	CEO
John Grifonetti	COO
Sophia Corona	Treasurer
Wendy Lee	Secretary
Scott Hill	Authorized Signatory
Andrew J. Surdykowski	Authorized Signatory
Michael Di Stephan	Authorized Signatory

Officers & Board Members of ICE & Subsidiaries

QW Holdings LLC

Shareholders: Creditex Group Inc., LabMorgan, The Goldman Sachs Group, Inc., DBAH Capital LLC, Citigroup Strategic Investments LLC, Lehman Bros. Holdings Inc.

Directors: S. Hirani, James Kenny, Derek Smith, Justin Gmelich

Name	Title
Sunil Hirani	CEO
Mazy Dar	Secretary
Sophia Corona	Treasurer

Q-Wixx B-Sub LLC

Managing Member: QW Holdings LLC

Name	Title

Creditex Brokerage LLP (UK)

Managing Partners: Creditex UK Ltd. (99% - Corp. Member & Designated Member), John Grifonetti (Designated Member)

Name	Title
Sunil Hirani	Director, on behalf of the Corporate Partner
Sophia Corona	Director, on behalf of the Corporate Partner
John Grifonetti	Director, on behalf of the Corporate Partner
Grant Biggar	Director, on behalf of the Corporate Partner
Niteen Sharma	Secretary, on behalf of the Corporate Partner

Creditex UK Ltd.

Directors: Sunil Hirani, John Grifonetti, Grant Biggar, Sophia Corona

Name	Title
Sunil Hirani	CEO
John Grifonetti	President & COO
Sophia Corona	Treasurer
Niteen Sharma	Secretary

ICE Processing International Ltd (UK)

Directors: S. Hirani, J. Grifonetti, Sofia Corona & Clive De Ruig

Name	Title
Jen Collet	Authorized Signatory
Helen Fermor	Authorized Signatory
Andrew J. Surdykowski	Authorized Signatory
Niteen Sharma	Secretary (Non-Signatory)

Officers & Board Members of ICE & Subsidiaries

Q-WIXX International Limited (UK)

Name	Title
Sunil Hirani	Director
Sophia Corona	Director
Niteen Sharma	Director and Co. Secretary

Officers & Board Members of ICE & Subsidiaries

ICE TRUST/TCC

ICE US Holding Company GP LLC

Managers: S. Hill, J. Short, C. Vice

Name	Title
Scott A. Hill	President & Treasurer
Johnathan A. Short	Secretary
Andrew J. Surdykowski	Assistant Secretary

ICE US Holding Company L.P.

Manager/ Officer - None (as a limited partnership, the general partner (ICE GP) manages ICE LP)

ICE Trust LLC

Managers: Andy Brindle, Biswarup Chatterjee, Athanassios Diplas, Sumit Roy Fred Hatfield (Independent Manager), Scott Hill, Terrence Martell (Independent Manager), Dirk Pruis, Frederick Salerno (Independent Manager), Jeffrey Sprecher Vincent Tese (Independent Manager)

Name	Title
Dirk Pruis	President
Sophia Corona	Chief Financial Officer
Kevin McClear	COO and Gen'l Counsel
Jessica Bertoldi	Asst. General Counsel, Chief Compliance Officer & Secretary
Stan Ivanov	Chief Risk Officer
Johnathan H. Short	Asst. Secretary
Andrew J. Surdykowski	Asst. Secretary

The Clearing Corporation

Directors: C. Vice, S. Hill, J. Short

Name	Title
Dirk Pruis	President
Kevin McClear	COO and General Counsel
Stan Ivanov	Chief Risk Officer
Rick Tsuru	Chief Information Officer
Rich Jerge	Chief Technology Officer
Jessica Bertoldi	Asst. General Counsel & Secretary