UNITED MICROELECTRONICS CORP Form 20-F April 21, 2015 Table of Contents

#### **UNITED STATES**

#### SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

#### FORM 20-F

(Mark One)

- " Registration statement pursuant to Section 12(b) or 12(g) of the Securities Exchange Act of 1934 or
- x Annual report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 For the fiscal year ended December 31, 2014

or

" Transition report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 For the transition period from \_\_\_\_\_\_ to \_\_\_\_\_

or

Shell company report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 Date of event requiring this shell company report \_\_\_\_\_

Commission file number 001-15128

United Microelectronics Corporation (Exact Name of Registrant as Specified in its Charter)

Taiwan, Republic of China (Jurisdiction of Incorporation or Organization) No. 3 Li-Hsin Road II, Hsinchu Science Park, Hsinchu City, Taiwan, Republic of China (Address of Principal Executive Offices) Chitung Liu, +886-2-2658-9168, <u>chitung liu@umc.com</u>, 8F, No. 68, Section 1, Neihu Road., Taipei 11493, Taiwan R.O.C.

(Name, Telephone, E-mail and/or Facsimile number and Address of Company Contact Person)

#### Securities registered or to be registered pursuant to Section 12(b) of the Act:

Title of Each Class American Depositary Shares, as evidenced by American Depositary Receipts, each representing 5 Common Shares Name of Each Exchange on which Registered New York Stock Exchange

#### Securities registered or to be registered pursuant to Section 12(g) of the Act:

None

#### Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act:

None

Indicate the number of outstanding shares of each of the Issuer s classes of capital or common stock as of the close of the period covered by the annual report.

# 12,725,207,790 Common Shares of Registrant issued as of December 31, 2014 (including 194,510,000 treasury shares)

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes x No "

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934. Yes "No x

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes x No  $\ddot{}$ 

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes "No"

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer. See definition of accelerated filer and large accelerated filer in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer x Accelerated filer "Non-accelerated filer "

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

U.S. GAAP " International Financial Reporting Standards as issued Other "

#### by the International Accounting Standards Board $\ x$

If Other has been checked in response to the previous question, indicate by check mark which financial statement item the registrant has elected to follow. Item 17 " Item 18 "

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Securities Exchange Act of 1934). Yes "No x

PART I

SUPPLEMENTAL INFORMATION

#### UNITED MICROELECTRONICS CORPORATION

#### FORM 20-F ANNUAL REPORT

#### FISCAL YEAR ENDED DECEMBER 31, 2014

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#### SUPPLEMENTAL INFORMATION

The references to United Microelectronics, we, us, our, our company and the Company in this annual report r United Microelectronics Corporation and its consolidated subsidiaries, unless the context suggests otherwise. The references to Taiwan and R.O.C. refer to Taiwan, Republic of China. The references to PRC refer to People s Republ of China. The references to shares and common shares refer to our common shares, par value NT\$10 per share, and ADSs refers to our American depositary shares, each representing five common shares. The ADSs are issued under

the Deposit Agreement, dated as of October 21, 2009, as amended, supplemented or modified from time to time, among United Microelectronics, JPMorgan Chase Bank, N.A. and the holders and beneficial owners from time to time of American Depositary Receipts issued thereunder. The references to TIFRSs refers to the Taiwan International Reporting Standards as issued by the Financial Supervisory Commission in the Republic of China, IFRSs refers to International Financial Reporting Standards as issued by the International Accounting Standards Board, or IASB,

R.O.C. GAAP refers to the generally accepted accounting principles in the Republic of China, and U.S. GAAP refers to the generally accepted accounting principles in the United States. Any discrepancies in any table between totals and sums of the amounts listed are due to rounding. Any discrepancies in any table between totals and sums of the amounts listed are due to rounding.

We publish our financial statements in New Taiwan dollars, the lawful currency of the R.O.C. In this annual report, NT\$ and NT dollars mean New Taiwan dollars, \$, US\$ and U.S. dollars mean United States dollars, ¥ means Yen, and means EURO.

#### FORWARD-LOOKING STATEMENTS IN THIS ANNUAL REPORT MAY NOT BE REALIZED

Our disclosure and analysis in this annual report contain or incorporate by reference some forward-looking statements. Our forward-looking statements contain information regarding, among other things, our financial condition, future expansion plans and business strategy. We have based these forward-looking statements on our current expectations and projections about future events. You can identify these statements by the fact that they do not relate strictly to historical or current facts. Although we believe that these expectations and projections are reasonable, such forward-looking statements are inherently subject to risks, uncertainties and assumptions about us, including, among other things:

our dependence on frequent introduction of new product services and technologies based on the latest developments;

the intensely competitive semiconductor, communications, consumer electronics and computer industries and markets;

risks associated with our international business activities;

our dependence on key personnel;

general economic and political conditions, including those related to the semiconductor, communications, consumer electronics and computer industries;

natural disasters, such as earthquakes and droughts, which are beyond our control;

possible disruptions in commercial activities caused by natural and human-induced disasters, and outbreaks of contagious diseases;

fluctuations in foreign currency exchange rates;

additional disclosures we make in our previous and future Form 20-F annual reports and Form 6-K periodic reports to the U.S. Securities and Exchange Commission, or the U.S. SEC; and

those other risks identified in the Item 3. Key Information-D. Risk Factors section of this annual report.

The words may , will , is/are likely to , anticipate , believe , estimate , expect , intend , plan and similar estimated to identify a number of these forward-looking statements. We do not and will not undertake the obligation to update or revise any forward-looking statements contained in this annual report whether as a result of new information, future events or otherwise. In light of these risks, uncertainties and assumptions, the forward-looking events discussed in this annual report might not occur and our actual results could differ materially from those anticipated in these forward-looking statements.

#### GLOSSARY

ASIC	Application Specific Integrated Circuit. A custom-designed integrated circuit that performs specific functions which would otherwise require a number of off-the-shelf integrated circuits to perform.
Cell	Semiconductor structure in an electrical state which can store a bit of information, mainly used as the building block of memory array.
Die	A piece of a semiconductor wafer containing the circuitry of an unpackaged single chip.
DRAM	Dynamic Random Access Memory. A type of volatile memory product that is used in electronic systems to store data and program instructions. It is the most common type of RAM and must be refreshed with electricity hundreds of times per second or else it will fade away.
EUV Lithography	Extreme Ultraviolet Lithography
FinFET	Fin Field-Effect Transistor
FPGA	Field Programmable Gate Array. A programmable integrated circuit.
Integrated Circuit	Entire electronic circuit built on a single piece of solid substrate and enclosed in a small package. The package is equipped with leads needed to electrically integrate the integrated circuit with a larger electronic system. Monolithic and hybrid integrated circuits are distinguished by the type of substrate used.
Interconnect	The conductive path made from copper or aluminum that is required to achieve connection from one circuit element to the other circuit elements within a circuit.
Mask or Photomask	A piece of glass on which an integrated circuit circuitry design is laid out.
Memory	A group of integrated circuits that a computer uses to store data and programs, such as ROM, RAM, DRAM and SRAM.
Micron	A unit of spatial measurement that is one-millionth of a meter.
Nanometer	A unit of spatial measurement that is one-billionth of a meter.
PC	Personal computer.
RAM	Random Access Memory. A type of volatile memory forming the main memory of a computer where applications and files are run.
ROM	Read-Only Memory. Memory that is programmed by the manufacturer and cannot be changed. Typically, ROM is used to provide start-up data when a computer is first turned on.

Scanner	A photolithography tool used in the production of semiconductor devices. This camera-like step-and-scan tool projects the image of a circuit from a master image onto a photosensitized silicon wafer.
Semiconductor	A material with electrical conducting properties in between those of metals and insulators. Essentially, semiconductors transmit electricity only under certain circumstances, such as when given a positive or negative electric charge. Therefore, a semiconductor s ability to conduct can be turned on or off by manipulating those charges and this allows the semiconductor to act as an electric switch. The most common semiconductor material is silicon, used as the base of most semiconductor chips today because it is relatively inexpensive and easy to create.
SoC	System-on-Chip. A chip that incorporates functions currently performed by several chips on a cost effective basis.
SOI	Silicon-On-Insulator. Silicon wafer consisting of a thin layer of oxide, on top of which semiconductor devices are built.
SRAM	Static Random Access Memory. A type of volatile memory product that is used in electronic systems to store data and program instructions. Unlike the more common DRAM, it does not need to be refreshed.
Transistor	Tri-terminal semiconductor device in which input signal (voltage or current depending on the type of transistor) controls output current. An individual circuit that can amplify or switch electric current. This is the building block of all integrated circuits.
Volatile memory	Memory products which lose their data content when the power supply is switched off.
Wafer	Thin, round, flat piece of silicon that is the base of most integrated circuits.
8-inch wafer equivalents	Standard unit describing the equivalent amount of 8-inch wafers produced after conversion, used to quantify levels of wafer production for purposes of comparison. Figures of 8-inch wafer equivalents are derived by converting the number of wafers of all dimensions (e.g., 6-inch, 8-inch and 12-inch) into their equivalent figures for 8-inch wafers. 100 6-inch wafers are equivalent to 56.25 8-inch wafers. 100 12-inch wafers are equivalent to 225 8-inch wafers.

#### **ITEM 1. IDENTITY OF DIRECTORS, SENIOR MANAGEMENT AND ADVISERS** Not applicable.

# **ITEM 2. OFFER STATISTICS AND EXPECTED TIMETABLE** Not applicable.

#### ITEM 3. KEY INFORMATION

#### A. Selected Financial Data

The selected consolidated balance sheets data as of January 1, 2012, December 31, 2012, 2013 and 2014 and the selected consolidated statements of comprehensive income data for the years ended December 31, 2012, 2013 and 2014 are derived from our audited consolidated financial statements included elsewhere in this annual report. In accordance with the requirements of the Taiwan Financial Supervisory Commission, or FSC, beginning on January 1, 2013, we have adopted Taiwan-IFRSs, which is translated and published by Accounting Research and Development Foundation, or ARDF, referred to as TIFRSs for reporting our annual and interim consolidated financial statements in the R.O.C. At the same time, we have adopted IFRSs as issued by the IASB for our annual reports on Form 20-F with the U.S. SEC beginning with the year ended December 31, 2013. However, since January 1, 2013, we only prepare our interim unaudited quarterly financial statements under TIFRSs, which are furnished to the SEC on Form 6-K.

In accordance with rule amendments adopted by the U.S. SEC for foreign private issuers reporting under IFRSs, we are not required to provide reconciliations to U.S. GAAP in this annual report following our adoption of IFRSs.

The summary financial data set forth below should be read in conjunction with Item 5. Operating and Financial Review and Prospects and our consolidated financial statements and the notes to those statements included in this annual report.

	Years Ended December 31,			
	2012 2013 2014			1
	NT\$	NT\$	NT\$	US\$
	(in millior	ns, except per	share and p	er ADS
	data)			
Consolidated Statements of Comprehensive Income				
Data				
Net operating revenues	115,675	123,812	140,012	4,431
Operating costs	(96,365)	(100,249)	(108,159)	(3,423)
Gross profit	19,310	23,563	31,853	1,008
Operating expenses	(15,697)	(19,406)	(21,238)	(672)
Net other operating income and expenses	(2,791)	(125)	(539)	(17)
Operating income	822	4,032	10,076	319
Non-operating income and expenses	5,473	10,309	3,496	111
Income from continuing operations before income tax	6,295	14,341	13,572	430
Income tax expense	(2,146)	(2,257)	(3,125)	(99)
Net income	4,149	12,084	10,447	331
Other comprehensive income (loss)	(6,381)	198	6,069	192
Total comprehensive income (loss)	(2,232)	12,282	16,516	523
Net income attributable to:				
Stockholders of the parent	6,094	12,609	11,109	352
Non-controlling interests	(1,945)	(525)	(662)	(21)
		~ /	~ /	
I otal comprehensive income (loss) attributable to:	(291)	12 706	17.025	520
Stockholders of the parent	(281)	12,790	17,035	(16)
Non-controlling interests	(1,931)	(314)	(319)	(10)
Earnings per share: (1)				
Basic	0.49	1.02	0.90	0.03
Diluted <sup>(2)</sup>	0.46	0.96	0.89	0.03
Common shares used in earnings per share calculation:				
Basic	12,464	12,346	12,334	12,334
Diluted <sup>(2)</sup>	13,289	13,150	12,719	12,719

Earnings per ADS equivalent:				
Basic	2.44	5.11	4.50	0.14
Diluted <sup>(2)</sup>	2.32	4.82	4.44	0.14

			As of			
	January 1,	December 31,	December 31,			
	2012	2012 2013		December 31, 2014		
	NT\$	NT\$	NT\$	NT\$	US\$	
	(in millions, except per share data)					
Consolidated Balance Sheets Data						
Total assets	279,336	281,214	293,914	310,648	9,831	
Total liabilities	69,780	79,526	84,270	90,309	2,858	
Stockholders equity	209,556	201,688	209,644	220,339	6,973	
Capital stock <sup>(3)</sup>	130,845	129,521	126,946	127,303	4,029	
Dividends declared per share <sup>(4)</sup>	1.11	0.50	0.40	0.50	0.02	

For the years ended December 31,			
2012	2013	2014	
NT\$	NT\$	NT\$	US\$
(in millions)			
108,624	116,782	129,449	4,097
7,051	7,030	10,563	334
6,094	12,710	11,260	356
(5,583)	(2,553)	(2,489)	79
	For the 2012 NT\$ 108,624 7,051 6,094 (5,583)	For the years ended   2012 2013   NT\$ NT\$   (in million) 108,624   108,624 116,782   7,051 7,030   6,094 12,710   (5,583) (2,553)	For the years ended December   2012 2013 2014   NT\$ NT\$ NT\$   108,624 116,782 129,449   7,051 7,030 10,563   6,094 12,710 11,260   (5,583) (2,553) (2,489)

(1) Earnings per share is calculated by dividing net income by the weighted average number of common shares outstanding during the year.

(2) Diluted securities include convertible bonds, employee stock options and employee bonus, if any.

- (3) Changes to the number of the capital common shares are primarily caused by the share-based payment transactions and the cancellation of treasury stocks, if any.
- (4) Dividends declared per share are in connection with earnings and accumulated additional paid-in capital.
- (5) There are adjustments primarily consisted of intragroup elimination entries.

#### **Currency Translations and Exchange Rates**

In portions of this annual report, we have translated New Taiwan dollar amounts into U.S. dollars for the convenience of readers. The rate we used for the translations was NT\$31.60 = US\$1.00, which was the noon buying rate as certified for customs purposes by the Federal Reserve Bank of New York on December 31, 2014. The translation does not mean that New Taiwan dollars could actually be converted into U.S. dollars at that rate. The following table shows the noon buying rates for New Taiwan dollars expressed in New Taiwan dollar per US\$1.00. On April 17, 2015, the noon buying rate was NT\$31.05 to US\$1.00.

				At Period-
	Average (1)	High	Low	End
2010	31.50	32.43	29.14	29.14
2011	29.38	30.67	28.50	30.27
2012	29.56	30.28	28.96	29.05
2013	29.73	30.20	29.93	29.83
2014	30.38	31.80	29.85	31.60
October	30.40	30.49	30.31	30.45
November	30.73	30.99	30.48	30.99
December	31.35	31.80	31.03	31.60
2015 (through April 17)	31.37	32.00	30.87	31.05
January	31.64	32.00	31.06	31.75
February	31.55	31.76	31.31	31.44
March	31.44	31.71	31.19	31.24
April (through April 17)	31.12	31.33	30.87	31.05

Source: Federal Reserve Statistical Release, Board of Governors of the Federal Reserve System.

(1) Determined by averaging the rates on the last business day of each month during the relevant period for annual periods, and by averaging the rates on each business day for monthly periods.

#### **B.** Capitalization and Indebtedness

Not applicable.

#### C. Reasons for the Offer and Use of Proceeds

Not applicable.

#### **D.** Risk Factors

Our business and operations are subject to various risks, many of which are beyond our control. If any of the risks described below actually occurs, our business, financial condition or results of operations could be seriously harmed.

#### **Risks Related to Our Business and Financial Condition**

# Any global systemic political, economic and financial crisis or catastrophic natural disasters (as well as the indirect effects flowing therefrom) could negatively affect our business, results of operations, and financial condition.

In recent times, several major systemic economic and financial crises and natural disasters negatively affected global business, banking and financial sectors, including the semiconductor industry and markets. These types of crises cause turmoil in global markets that often result in declines in electronic products sales from which we generate our income through our goods and services. In addition, these crises may cause a number of indirect effects such as undermining the ability of our customers to remain competitive when faced with the financial and economic challenges created by insolvent countries and companies still struggling to survive in the wake of these crises. For example, there could be in the future knock-on effects from these types of crises on our business, including significant decreases in orders from our customers; insolvency of key suppliers resulting in product delays; inability of customers to obtain credit to finance purchases of our products; customer insolvencies; and counterparty failures negatively impacting our treasury operations. Any future systemic political, economic or financial crises or catastrophic natural disasters (as well as the indirect effects flowing from these crises or disasters) could cause revenues for the semiconductor industry as a whole to decline dramatically, and if the economic conditions or financial condition of our customers were to deteriorate, additional accounting related allowances may be required in the future and such additional allowances could increase our operating expenses and therefore reduce our operating income and net income. Thus, any future global economic crisis or catastrophic natural disaster (and their indirect effects) could materially and adversely affect our results of operations.

In 2009, we established a 100% owned subsidiary, UMC New Business Investment Corporation, or NBI, to focus on investments in the solar energy, and light emitting diodes, or LED, light source module design, epi wafer manufacturing, and packaging. In recent years, the growth of solar energy and LED industries is adversely affected by the on-going anti-subsidy and anti-dumping investigations from various regions, the combination of an increase in supply coupled with a decrease in the availability of government subsidies and the decrease in the price of international crude oil resulted in an excess of supply in the solar energy and LED industries made through NBI. If the solar energy and LED industries continue to encounter significant downturns or significant reductions of government subsidies, our investments made through NBI will be adversely affected which could adversely affect our results of operations.

# The seasonality and cyclical nature of the semiconductor industry and periodic overcapacity make us particularly vulnerable to significant and sometimes prolonged economic downturns.

The semicondu