

ASE Technology Holding Co., Ltd.

**Parent Company Only Financial Statements for the
Years Ended December 31, 2019 and 2018 and
Independent Auditors' Report**

INDEPENDENT AUDITORS' REPORT

The Board of Directors and Shareholders
ASE Technology Holding Co., Ltd.

Opinion

We have audited the accompanying parent company only financial statements of ASE Technology Holding Co., Ltd. (the "Company"), which comprise the balance sheets as of December 31, 2019 and 2018, and the statements of comprehensive income, changes in equity and cash flows for the years then ended, and the notes to the parent company only financial statements, including a summary of significant accounting policies (collectively referred to as the "parent company only financial statements").

In our opinion, based on our audits and the report of other auditors (please refer to the Other Matter paragraph), the accompanying parent company only financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and its financial performance and its cash flows for the years then ended in accordance with the Regulations Governing the Preparation of Financial Reports by Securities Issuers.

Basis for Opinion

We conducted our audits in accordance with the Regulations Governing Auditing and Attestation of Financial Statements by Certified Public Accountants and auditing standards generally accepted in the Republic of China. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Parent Company Only Financial Statements section of our report. We are independent of the Company in accordance with The Norm of Professional Ethics for Certified Public Accountant of the Republic of China, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion based on our audits and the report of other auditors.

Key Audit Matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the parent company only financial statements for the year ended December 31, 2019. These matters were addressed in the context of our audit of the parent company only financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

The key audit matter of the Company's parent company only financial statements for the year ended December 31, 2019 is discussed as follows.

Evaluation of Goodwill included in Investments in Subsidiaries for Impairment

The Company's evaluation of goodwill included in investments in subsidiaries for impairment involves the comparison of the value in use of each segment, to which each subsidiary attributed, to its carrying value. The Company used the discounted cash flow model to estimate value in use, which required management to make significant estimates and assumptions related to discount rates and forecasts of future revenues. Changes in these assumptions could have a significant impact on either the value in use, the amount of any goodwill impairment charge, or both. The goodwill balance was NT\$49,542,631 thousand as of December 31, 2019, of

which NT\$35,154,473 thousand and NT\$13,328,871 thousand were allocated to the packaging segment and the testing segment, respectively. Both the value in use of the packaging segment and the testing segment exceeded their carrying value as of the measurement date and, therefore, no impairment was recognized.

The operation of both packaging segment and testing segment are sensitive to changes in demand in the semiconductor industry which varies by economic trends. Given the significant estimates and assumptions management makes to estimate the value in use of both packaging segment and testing segment and the sensitivity of their operations to changes in demand, performing audit procedures to evaluate the reasonableness of management's estimates and assumptions related to the selection of the discount rates and forecasts of future revenues for the packaging segment and the testing segment required a high degree of auditors' judgment and an increased extent of effort, including the need to involve our fair value specialists.

Please refer to Notes 4(4) and 5 for the related accounting policy as well as critical accounting judgements and key sources of estimation uncertainty for the Company's evaluation of goodwill included in investments in subsidiaries for impairment.

Our audit procedures related to the discount rates and forecasts of future revenues used by management to estimate the value in use of the packaging segment and the testing segment included the following:

1. We tested the design and operating effectiveness of controls over management's evaluation of goodwill for impairment, including those over the determination of the value in use of the packaging segment and the testing segment, such as controls related to management's selection of the discount rates and assessment on the reasonableness of forecasts of future revenues.
2. We evaluated management's ability to accurately forecast future revenues by comparing actual results to management's historical forecasts.
3. We performed sensitivity analyses to evaluate the risk of impairment if key assumptions were changed.
4. With the assistance of our fair value specialists, we evaluated the reasonableness of the discount rates selected by performing certain procedures, including:
 - Testing the source information underlying the determination of the discount rates and the mathematical accuracy of the calculation.
 - Developing a range of independent estimates and comparing those to the discount rates selected by management.

Emphasis of Matter

As discussed in Note 1 to the parent company only financial statements, the share exchange was conducted on April 30, 2018 (date of incorporation) in accordance with the joint share exchange agreement at an exchange ratio of 1 ordinary share of Advanced Semiconductor Engineering, Inc. (ASE) for 0.5 ordinary share of the Company, and then the Company owned 100% shareholdings of ASE. The aforementioned share exchange transaction was an organization restructure under common control that the Company was essentially the continuation of ASE. The related assets and liabilities in the Company's parent company only financial statements before the date of incorporation were recognized based on the carrying amounts of those in ASE's parent company only financial statements. The parent company only financial statements of the Company for prior period are prepared under the assumption that the Company owned 100% shareholdings of ASE at the very beginning and accounted for ASE as a subsidiary using the equity method.

In addition, as discussed in Note 1 to the parent company only financial statements that ASE spun off its investment department which was responsible for managing the ordinary shares and assets of USI Inc. (USIINC) as well as relevant assets (including assets, liabilities and business) into a newly established company, USI Global Inc. (USI Global), USI Global then issued new ordinary shares to the Company as the consideration. The aforementioned transaction was also an organization restructure under common control. The parent company only financial statements of the Company for prior period are prepared under the assumption that the spin-off

has been completed at the very beginning and the Company accounted for USI Global as a subsidiary using the equity method.

Other Matter

We did not audit the consolidated financial statements of Siliconware Precision Industries Co., Ltd (SPIL), a subsidiary accounted for using the equity method as of December 31, 2019 and 2018, but such statements were audited by other auditors. Our opinion, insofar as it relates to the amounts included for SPIL, is based solely on the report of other auditors. The carrying amount of the investment in SPIL accounted for using the equity method constituted 53% and 54%, respectively, of the Company's total assets as of December 31, 2019 and 2018, and the share of profit of SPIL constituted 45% and 30%, respectively, of the Company's net profit for the years then ended.

Responsibilities of Management and Those Charged with Governance for the Parent Company Only Financial Statements

Management is responsible for the preparation and fair presentation of the parent company only financial statements in accordance with the Regulations Governing the Preparation of Financial Reports by Securities Issuers, and for such internal control as management determines is necessary to enable the preparation of the parent company only financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the parent company only financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Those charged with governance, including the audit committee, are responsible for overseeing the Company's financial reporting process.

Auditors' Responsibilities for the Audit of the Parent Company Only Financial Statements

Our objectives are to obtain reasonable assurance about whether the parent company only financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with the auditing standards generally accepted in the Republic of China will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these parent company only financial statements.

As part of an audit in accordance with the auditing standards generally accepted in the Republic of China, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

1. Identify and assess the risks of material misstatement of the parent company only financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
2. Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
3. Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
4. Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast

significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditors' report to the related disclosures in the parent company only financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditors' report. However, future events or conditions may cause the Company to cease to continue as a going concern.

5. Evaluate the overall presentation, structure and content of the parent company only financial statements, including the disclosures, and whether the parent company only financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
6. Obtain sufficient and appropriate audit evidence regarding the financial information of entities or business activities within the Company to express an opinion on the parent company only financial statements. We are responsible for the direction, supervision, and performance of the audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the parent company only financial statements for the year ended December 31, 2019 and are therefore the key audit matters. We describe these matters in our auditors' report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The engagement partners on the audit resulting in this independent auditors' report are Shih-Tsung Wu and Jia-Ling Chiang.

Deloitte & Touche
Taipei, Taiwan
Republic of China

March 9, 2020

Notice to Readers

The accompanying parent company only financial statements are intended only to present the financial position, financial performance and cash flows in accordance with accounting principles and practices generally accepted in the Republic of China and not those of any other jurisdictions. The standards, procedures and practices to audit such parent company only financial statements are those generally applied in the Republic of China.

For the convenience of readers, the independent auditors' report and the accompanying parent company only financial statements have been translated into English from the original Chinese version prepared and used in the Republic of China. If there is any conflict between the English version and the original Chinese version or any difference in the interpretation of the two versions, the Chinese-language independent auditors' report and parent company only financial statements shall prevail.

ASE TECHNOLOGY HOLDING CO., LTD.

PARENT COMPANY ONLY BALANCE SHEETS AS OF DECEMBER 31, 2019 AND 2018 (In Thousands of New Taiwan Dollars)

	December 31, 2019		December 31, 2018	
	NT\$	%	NT\$	%
ASSETS				
CURRENT ASSETS				
Cash	\$ 182,560	-	\$ 78,075	-
Other receivables	7	-	6,672	-
Other receivables to related parties (Note 11)	37,724	-	-	-
Other current assets	13,646	-	14,445	-
Total current assets	233,937	-	99,192	-
NON-CURRENT ASSETS				
Investments accounted for using the equity method (Notes 1 、 5 and 6)	294,010,046	100	296,976,191	100
Total non-current assets	294,010,046	100	296,976,191	100
TOTAL	<u>\$ 294,243,983</u>	<u>100</u>	<u>\$ 297,075,383</u>	<u>100</u>
LIABILITIES AND EQUITY				
CURRENT LIABILITIES				
Other payables	\$ 291,141	-	\$ 176,655	-
Other payables to related parties (Note 17)	32,880,211	11	38,600,030	13
Current tax liabilities	256,590	-	-	-
Current portion of long-term borrowings (Note 7)	3,322,708	1	5,371,917	2
Other current liabilities	2,897	-	3,427	-
Total current liabilities	36,753,547	12	44,152,029	15
NON-CURRENT LIABILITIES				
Bonds payable (Note 8)	19,281,866	7	-	-
Long-term borrowings (Note 7)	37,239,847	13	49,900,000	17
Total non-current liabilities	56,521,713	20	49,900,000	17
Total liabilities	93,275,260	32	94,052,029	32
EQUITY (Note 9)				
Share capital				
Ordinary shares	43,254,026	15	43,201,486	15
Shares subscribed in advance	51,261	-	15,658	-
Total share capital	43,305,287	15	43,217,144	15
Capital surplus	138,908,912	47	143,275,213	48
Retained earnings				
Legal reserve	2,203,895	1	-	-
Special reserve	6,902,782	2	3,353,938	1
Unappropriated earnings	22,454,651	8	22,038,948	7
Total retained earnings	31,561,328	11	25,392,886	8
Other equity	(10,847,697)	(4)	(6,902,782)	(2)
Treasury shares	(1,959,107)	(1)	(1,959,107)	(1)
Total equity	200,968,723	68	203,023,354	68
TOTAL	<u>\$ 294,243,983</u>	<u>100</u>	<u>\$ 297,075,383</u>	<u>100</u>

The accompanying notes are an integral part of the parent company only financial statements.

(With Deloitte & Touche auditors' report dated March 9, 2020)

ASE TECHNOLOGY HOLDING CO., LTD.

PARENT COMPANY ONLY STATEMENTS OF COMPREHENSIVE INCOME FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018 (In Thousands of New Taiwan Dollars Except Earnings Per Share)

	For the Year Ended December 31			
	2019		2018	
	NT\$	%	NT\$	%
OPERATING REVENUES	\$ 18,540,038	100	\$ 19,026,512	100
GROSS PROFIT	18,540,038	100	19,026,512	100
OPERATING EXPENSES (Note 10)				
General and administrative expenses	488,827	3	205,468	1
Total operating expenses	488,827	3	205,468	1
PROFIT FROM OPERATIONS	18,051,211	97	18,821,044	99
NON-OPERATING INCOME AND EXPENSES				
Other income	223	-	435	-
Other gains, net (Note 10)	236,202	1	7,571,880	40
Finance costs (Note 10)	(1,192,872)	(6)	(1,131,003)	(6)
Total non-operating income and expenses	(956,447)	(5)	6,441,312	34
PROFIT BEFORE INCOME TAX	17,094,764	92	25,262,356	133
INCOME TAX EXPENSE (Note 11)	244,955	1	-	-
NET PROFIT FOR THE YEAR	16,849,809	91	25,262,356	133
OTHER COMPREHENSIVE INCOME (LOSS) (Notes 9 and 11)				
Items that will not be reclassified subsequently to profit or loss:				
Share of other comprehensive income (loss) of subsidiaries	982,745	6	(1,221,852)	(6)
Income tax relating to items that will not be reclassified subsequently to profit or loss	72,198	-	58,798	-
	1,054,943	6	(1,163,054)	(6)
Items that may be reclassified subsequently to profit or loss:				
Share of other comprehensive income (loss) of subsidiaries	(4,876,163)	(26)	562,794	3
Other comprehensive loss for the year, net of income tax	(3,821,220)	(20)	(600,260)	(3)
TOTAL COMPREHENSIVE INCOME FOR THE YEAR	\$ 13,028,589	71	\$ 24,662,096	130
EARNINGS PER SHARE (Note 12)				
Basic	\$ 3.96		\$ 5.95	
Diluted	\$ 3.86		\$ 5.84	

The accompanying notes are an integral part of the parent company only financial statements.

(With Deloitte & Touche auditors' report dated March 9, 2020)

ASE TECHNOLOGY HOLDING CO., LTD.

PARENT COMPANY ONLY STATEMENTS OF CHANGES IN EQUITY FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018 (In Thousands of New Taiwan Dollars)

								Other Equity				
	Share Capital		Capital Surplus	Retained Earnings				Exchange Differences on Translating Foreign Operations	Unrealized Gain (Loss) on Financial Assets at Fair Value Through Other Comprehensive Income	Total	Treasury Shares	Total Equity
	Shares (In Thousands)	Amounts		Legal Reserve	Special Reserve	Unappropriated Earnings	Total					
BALANCE AT JANUARY 1, 2018	8,738,079	\$ 87,380,787	\$ 40,622,877	\$ 16,765,066	\$ 3,353,938	\$ 57,167,894	\$ 77,286,898	\$ (6,732,760)	\$ 135,517	\$ (6,597,243)	\$ (7,292,513)	\$ 191,400,806
Change from investments in associates accounted for using the equity method	-	-	1,411,899	-	-	-	-	-	-	-	-	1,411,899
Cash dividends paid from the capital surplus (Note 9)	-	-	(10,795,980)	-	-	-	-	-	-	-	-	(10,795,980)
Other changes in the capital surplus	-	-	872	-	-	-	-	-	-	-	-	872
Net profit for the year ended December 31, 2018	-	-	-	-	-	25,262,356	25,262,356	-	-	-	-	25,262,356
Other comprehensive income (loss) for the year ended December 31, 2018, net of income tax	-	-	-	-	-	(146,194)	(146,194)	562,794	(1,016,860)	(454,066)	-	(600,260)
Total comprehensive income (loss) for the year ended December 31, 2018, net of income tax	-	-	-	-	-	25,116,162	25,116,162	562,794	(1,016,860)	(454,066)	-	24,662,096
Effect of the joint share exchange (Note 9)	(4,318,392)	(43,183,919)	117,693,658	(16,765,066)	-	(57,744,673)	(74,509,739)	-	-	-	-	-
Buy-back of ordinary shares	-	-	-	-	-	-	-	-	-	-	(71,302)	(71,302)
Cancellation of treasury shares	(121,852)	(1,218,520)	(1,480,903)	-	-	(2,705,285)	(2,705,285)	-	-	-	5,404,708	-
Cash dividends received by subsidiaries from the Company	-	-	182,354	-	-	-	-	-	-	-	-	182,354
Disposal of interest in associates and joint ventures accounted for using the equity method	-	-	(1,408,495)	-	-	204,450	204,450	282,291	(133,364)	148,927	-	(1,055,118)
Differences between consideration and carrying amount arising from acquisition or disposal of subsidiaries	-	-	(1,142,856)	-	-	-	-	-	-	-	-	(1,142,856)
Changes in percentage of ownership interest in subsidiaries	-	-	(1,118,102)	-	-	-	-	-	-	-	-	(1,118,102)
Issue of ordinary shares under employee share options (Note 13)	23,879	238,796	549,345	-	-	-	-	-	-	-	-	788,141
Additional non-controlling interest arising on issue of employee share options by subsidiaries	-	-	(1,239,456)	-	-	-	-	-	-	-	-	(1,239,456)
Disposal of investments in equity instruments at fair value through other comprehensive income	-	-	-	-	-	400	400	-	(400)	(400)	-	-
BALANCE AT DECEMBER 31, 2018	4,321,714	\$ 43,217,144	\$ 143,275,213	\$ -	\$ 3,353,938	\$ 22,038,948	\$ 25,392,886	\$ (5,887,675)	\$ (1,015,107)	\$ (6,902,782)	\$ (1,959,107)	\$ 203,023,354
BALANCE AT JANUARY 1, 2019	4,321,714	\$ 43,217,144	\$ 143,275,213	\$ -	\$ 3,353,938	\$ 22,038,948	\$ 25,392,886	\$ (5,887,675)	\$ (1,015,107)	\$ (6,902,782)	\$ (1,959,107)	\$ 203,023,354
Appropriation of 2018 earnings												
Legal reserve	-	-	-	2,203,895	-	(2,203,895)	-	-	-	-	-	-
Special reserve	-	-	-	-	3,548,844	(3,548,844)	-	-	-	-	-	-
Cash dividends distributed by the Company	-	-	-	-	-	(10,806,454)	(10,806,454)	-	-	-	-	(10,806,454)
	-	-	-	2,203,895	3,548,844	(16,559,193)	(10,806,454)	-	-	-	-	(10,806,454)
Change from investments in associates accounted for using the equity method	-	-	3,604	-	-	-	-	-	-	-	-	3,604
Other changes in the capital surplus	-	-	1,070	-	-	-	-	-	-	-	-	1,070
Net profit for the year ended December 31, 2019	-	-	-	-	-	16,849,809	16,849,809	-	-	-	-	16,849,809
Other comprehensive income (loss) for the year ended December 31, 2019, net of income tax	-	-	-	-	-	(280,461)	(280,461)	(4,874,110)	1,333,351	(3,540,759)	-	(3,821,220)
Total comprehensive income (loss) for the year ended December 31, 2019, net of income tax	-	-	-	-	-	16,569,348	16,569,348	(4,874,110)	1,333,351	(3,540,759)	-	13,028,589

(Continued)

ASE TECHNOLOGY HOLDING CO., LTD.

PARENT COMPANY ONLY STATEMENTS OF CHANGES IN EQUITY
FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018
(In Thousands of New Taiwan Dollars)

	Share Capital			Retained Earnings				Other Equity				
	Shares		Capital	Legal	Special	Unappropriated		Exchange	Unrealized Gain (Loss)		Treasury	Total
	(In Thousands)	Amounts	Surplus	Reserve	Reserve	Earnings	Total	Differences on	on Financial Assets at		Shares	Equity
								Translating	Fair Value Through			
								Foreign	Other Comprehensive	Total		
								Operations	Income			
Cash dividends received by subsidiaries from the Company	-	\$ -	\$ 182,354	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 182,354
Disposal of interest in associates accounted for using the equity method	-	-	(75,276)	-	-	1,392	1,392	-	-	-	-	(73,884)
Differences between consideration and carrying amount arising from acquisition or disposal of subsidiaries	-	-	(2,779,613)	-	-	-	-	-	-	-	-	(2,779,613)
Changes in percentage of ownership interest in subsidiaries	-	-	(1,960,167)	-	-	-	-	-	-	-	-	(1,960,167)
Issue of ordinary shares under employee share options (Note 13)	8,814	88,143	1,137,020	-	-	-	-	-	-	-	-	1,225,163
Additional non-controlling interest arising on issue of employee share options by subsidiaries	-	-	(875,293)	-	-	-	-	-	-	-	-	(875,293)
Disposal of investments in equity instruments at fair value through other comprehensive income	-	-	-	-	-	404,156	404,156	-	(404,156)	(404,156)	-	-
BALANCE AT DECEMBER 31, 2019	4,330,528	\$ 43,305,287	\$ 138,908,912	\$ 2,203,895	\$ 6,902,782	\$ 22,454,651	\$ 31,561,328	\$ (10,761,785)	\$ (85,912)	\$ (10,847,697)	\$ (1,959,107)	\$ 200,968,723

(Concluded)

The accompanying notes are an integral part of the parent company only financial statements.

(With Deloitte & Touche auditors’ report dated March 9, 2020)

ASE TECHNOLOGY HOLDING CO., LTD.

PARENT COMPANY ONLY STATEMENTS OF CASH FLOWS FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018 (In Thousands of New Taiwan Dollars)

	For the Year Ended December 31	
	2019 NT\$	2018 NT\$
CASH FLOWS FROM OPERATING ACTIVITIES		
Profit before income tax	\$ 17,094,764	\$ 25,262,356
Adjustments for:		
Finance costs	1,192,872	1,131,003
Interest income	(223)	(435)
Compensation cost of employee share options	40,338	2,414
Share of profit of subsidiaries	(18,540,038)	(19,026,512)
Remeasurement gain on investments accounted for using the equity method	-	(7,571,882)
Changes in operating assets and liabilities		
Other receivables	6,671	(6,672)
Other current assets	799	(14,445)
Other payables	157,080	100,795
Other payables to related parties	181	30
Other current liabilities	(530)	3,427
Cash used in operations	(48,086)	(119,921)
Interest received	217	435
Dividend received	21,500,000	38,579,558
Interest paid	(1,118,995)	(868,226)
Income tax paid	(26,089)	-
Net cash generated from operating activities	<u>20,307,047</u>	<u>37,591,846</u>
CASH FLOWS FROM INVESTING ACTIVITIES		
Acquisition of subsidiaries	(9,307,200)	(120,547,783)
Net cash inflow from subsidiaries	<u>748,845</u>	<u>-</u>
Net cash used in investing activities	<u>(8,558,355)</u>	<u>(120,547,783)</u>
CASH FLOWS FROM FINANCING ACTIVITIES		
Proceeds from bonds offering	19,279,033	-
Proceeds from long-term borrowings	33,877,000	90,085,000
Repayment of long-term borrowings	(48,700,000)	(35,000,000)
Increase (decrease) in other payables to related parties	(5,720,000)	38,600,000
Dividends paid	(10,806,454)	(10,795,980)
Proceeds from exercise of employee share options	<u>426,214</u>	<u>144,992</u>
Net cash generated from (used in) financing activities	<u>(11,644,207)</u>	<u>83,034,012</u>
NET INCREASE IN CASH	104,485	78,075
CASH AT THE BEGINNING OF THE YEAR	<u>78,075</u>	<u>-</u>
CASH AT THE END OF THE YEAR	<u>\$ 182,560</u>	<u>\$ 78,075</u>

The accompanying notes are an integral part of the parent company only financial statements.

(With Deloitte & Touche auditors' report dated March 9, 2020)

ASE TECHNOLOGY HOLDING CO., LTD.

NOTES TO PARENT COMPANY ONLY FINANCIAL STATEMENTS FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018 (In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

1. GENERAL INFORMATION

ASE Technology Holding Co., Ltd. (the “Company”) is a corporation incorporated in Nantze Export Processing Zone under the laws of Republic of China (R.O.C.) starting from April 30, 2018 (date of incorporation). The Company is an industrial investment holding company.

The board of directors of the Company’s subsidiaries, Advanced Semiconductor Engineering, Inc. (symbol “2311”, “ASE”) and Siliconware Precision Industries Co., Ltd. (symbol “2325”, “SPIL”), approved in June 2016 to enter into and execute a joint share exchange agreement to establish the Company and the Company acquired all issued and outstanding ordinary shares of ASE and SPIL in the way of share exchange. The share exchange was conducted at an exchange ratio of 1 ordinary share of ASE for 0.5 ordinary share of the Company, and at NT\$51.2 in cash per SPIL’s ordinary share. The share exchange transaction has been approved both at ASE and SPIL’s special shareholders’ meeting on February 12, 2018 and has been completed on April 30, 2018. As a result, ASE and SPIL became wholly-owned subsidiaries of the Company on April 30, 2018, and both of ASE’s and SPIL’s ordinary shares have been delisted while the ordinary shares of the Company were listed starting from the same date under the symbol “3711”. In addition, ASE’s ordinary shares that have been traded on the New York Stock Exchange (the “NYSE”) under the symbol “ASX” in the form of American Depositary Shares (“ADS”) starting from September 2000 were exchanged as the Company’s ADSs under the same symbol “ASX” starting from April 30, 2018.

For enhancing operational flexibility through organization restructure, the board of directors of ASE resolved in October 2018 to spin off its investment department which was responsible for managing the ordinary shares and assets of USI Inc. (“USIINC”) as well as relevant assets (including assets, liabilities and business) into a newly established company, USI Global Inc. (the “USI Global”). USI Global then issued new ordinary shares to the Company as a consideration. In November 2018, the spin off has been completed and the Company has obtained control over ASE and USI Global. In December 2018, the board of directors of the Company and USI Global further resolved to proceed with the merge which was completed in January 2019. After the merger, the Company is the surviving company while USI Global is the dissolving company. The aforementioned spin off and merger have no material effect on the Company’s financial position and financial performance.

The parent company only financial statements are presented in the Company’s functional currency, New Taiwan dollar (NT\$).

2. APPROVAL OF FINANCIAL STATEMENTS

The parent company only financial statements were approved for issue by the Company’s board of directors on February 27, 2020.

3. APPLICATION OF NEW, AMENDED AND REVISED STANDARDS AND INTERPRETATIONS

- a. Initial application of the amendments to the Regulations Governing the Preparation of Financial Reports by Securities Issuers and the International Financial Reporting Standards (IFRS), International Accounting Standards (IAS), Interpretations of IFRS (IFRIC), and Interpretations of IAS (SIC) (collectively, the “IFRSs”) endorsed and issued into effect by the Financial Supervisory Commission (the “FSC”)

The initial application of the amendments to the Regulations Governing the Preparation of Financial Reports by Securities Issuers and the IFRSs endorsed and issued into effect by the FSC would not have any material impact on the Company's accounting policies.

- b. The IFRSs endorsed by the FSC for application starting from 2020

New, Amended or Revised Standards and Interpretations ("New IFRSs")	Effective Date Announced by IASB
Amendments to IFRS 3 "Definition of a Business"	January 1, 2020 (Note 1)
Amendments to IFRS 9、IAS 39 and IFRS 7 "Interest Rate Benchmark Reform"	January 1, 2020 (Note 2)
Amendments to IAS 1 and IAS 8 "Definition of Material"	January 1, 2020 (Note 3)

Note 1: The Company shall apply these amendments to business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after January 1, 2020 and to asset acquisitions that occur on or after the beginning of that period.

Note 2: The Company shall apply these amendments retrospectively for annual reporting periods beginning on or after January 1, 2020.

Note 3: The Company shall apply these amendments prospectively for annual reporting periods beginning on or after January 1, 2020.

As of the date the parent company only financial statements were authorized for issue, the Company is continuously assessing the possible impact that the application of the aforementioned standards and interpretations will have on the Company's financial position and financial performance and will disclose the relevant impact when the assessment is completed.

- c. New IFRSs in issue but not yet endorsed and issued into effect by the FSC

New IFRSs	Effective Date Announced by IASB
Amendments to IFRS 10 and IAS 28 "Sale or Contribution of Assets between An Investor and Its Associate or Joint Venture"	To be determined by IASB

As of the date the parent company only financial statements were authorized for issue, the Company is continuously assessing the possible impact that the application of the aforementioned standards and interpretations will have on the Company's financial position and financial performance and will disclose the relevant impact when the assessment is completed.

4. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

- a. Statement of compliance

The parent company only financial statements have been prepared in accordance with the Regulations Governing the Preparation of Financial Reports by Securities Issuers.

- b. Basis of preparation

As disclosed in Note 1, the share exchange between the Company and ASE was an organization restructure under common control that the Company was essentially the continuation of ASE. The

related assets and liabilities in the Company's parent company only financial statements, before the date of incorporation, were recognized based on the carrying amounts of those in ASE's parent company only financial statements. The parent company only financial statements of the Company before the date of incorporation are prepared under the assumption that the Company owned 100% shareholdings of ASE at the very beginning and accounted for ASE as a subsidiary using the equity method.

The parent company only financial statements have been prepared on the historical cost basis except for certain financial instruments that are measured at fair value.

The fair value measurements, which are grouped into Levels 1 to 3 based on the degree to which the fair value measurement inputs are observable and based on the significance of the inputs to the fair value measurement in its entirety, are described as follows:

- 1) Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities;
- 2) Level 2 inputs are inputs other than quoted prices included within Level 1 that are observable for an asset or a liability, either directly (i.e. as prices) or indirectly (i.e. derived from prices); and
- 3) Level 3 inputs are unobservable inputs for an asset or a liability.

When preparing the parent company only financial statements, the Company accounted for subsidiaries by using the equity method. In order to agree with the amount of the net income, other comprehensive income and equity attributable to shareholders of the parent in the consolidated financial statements, the differences of the accounting treatment between the parent company only basis and the consolidated basis are adjusted under the heading of investments accounted for using equity method, share of profits of subsidiaries and share of other comprehensive income of subsidiaries in the parent company only financial statements.

c. Classification of current and non-current assets and liabilities

Current assets include cash and those assets expected to be realized within 12 months after the balance sheet date, unless the asset is restricted from being exchanged or used to settle a liability for at least 12 months after the balance sheet date. Current liabilities are liabilities due to be settled within 12 months after the balance sheet date (even if an agreement to refinance, or to reschedule payments, on a long-term basis is completed after the balance sheet date and before the parent company only financial statements are authorized for issue), and liabilities for which the Company does not have an unconditional right to defer settlement for at least 12 months after the balance sheet date (terms of a liability that could, at the option of the counterparty, result in its settlement by the issue of equity instruments do not affect its classification). Assets and liabilities that are not classified as current are classified as non-current.

d. Investments in subsidiaries

The Company uses the equity method to account for its investments in subsidiaries. A subsidiary is an entity that is controlled by the Company.

Under the equity method, an investment in a subsidiary is initially recognized at cost and adjusted thereafter to recognize the Company's share of the profit or loss and other comprehensive income of the subsidiary. The Company also recognizes the changes in the Company's share of equity of subsidiaries attributable to the Company.

Changes in the Company's ownership interest in a subsidiary that do not result in the Company losing control of the subsidiary are accounted for as equity transactions. The Company recognizes directly in equity any difference between the carrying amount of the investment and the fair value of the consideration paid or received.

Any excess of the cost of acquisition over the Company's share of the net fair value of the identifiable assets and liabilities of a subsidiary at the date of acquisition is recognized as goodwill, which is included within the carrying amount of the investment and is not amortized. Any excess of the Company's share of the net fair value of the identifiable assets and liabilities over the cost of acquisition is recognized immediately in profit or loss.

The Company assesses its investment for any impairment by comparing the carrying amount with the estimated recoverable amount as assessed based on the investee's financial statements as a whole. Impairment loss is recognized when the carrying amount exceeds the recoverable amount. If the recoverable amount of the investment subsequently increases, the Company recognizes a reversal of the impairment loss; the adjusted post-reversal carrying amount should not exceed the carrying amount that would have been recognized (net of amortization or depreciation) had no impairment loss been recognized in prior years. An impairment loss recognized on goodwill cannot be reversed in a subsequent period.

Profits or losses resulting from downstream transactions are eliminated in full only in the parent company's financial statements. Profits or losses resulting from upstream transactions and transactions between subsidiaries are recognized only in the parent company's financial statements only to the extent of interests in the subsidiaries that are not related to the Company.

e. Borrowing costs

Borrowing costs are recognized in profit or loss in the period in which they are incurred.

f. Employee benefits

1) Short-term employee benefits

Liabilities recognized in respect of short-term employee benefits are measured at the undiscounted amount of the benefits expected to be paid in exchange for the related services.

2) Retirement benefits

Payments to defined contribution retirement benefit plans are recognized as expenses when employees have rendered services entitling them to the contributions.

g. Share-based payment arrangements

The fair value at the grant date of the employee share options is expensed on a straight-line basis over the vesting period, based on the Company's best estimate of the number of shares that are expected to ultimately vest, with a corresponding increase in capital surplus - employee share options. It is recognized as an expense in full at the grant date if vesting immediately. The grant date of issued ordinary shares for cash which are reserved for employees is the date on which the number of shares that the employees purchase is confirmed.

At each balance sheet date, the Company reviews its estimate of the number of employee share options expected to vest. The impact of the revision of the original estimates is recognized in profit or loss such that the cumulative expense reflects the revised estimate, with a corresponding adjustment to the capital surplus - employee share options.

The grant by the Company of its equity instruments to the employees of a subsidiary under options is treated as a capital contribution. The fair value of employee services received under the arrangement is measured by reference to the grant-date fair value and is recognized over the vesting period as an addition to the investment in the subsidiary, with a corresponding credit to capital surplus - employee share options.

h. Taxation

Income tax expense represents the sum of the tax currently payable and deferred tax.

1) Current tax

According to the Income Tax Law of R.O.C., an additional tax of unappropriated earnings is provided for as income tax in the year the shareholders approve to retain earnings.

Adjustments of prior years' tax liabilities are added to or deducted from the current year's tax provision.

2) Deferred tax

Deferred tax is recognized on temporary differences between the carrying amounts of assets and liabilities and the corresponding tax bases used in the computation of taxable profit.

If a temporary difference arises from the initial recognition (other than the acquisition of a subsidiary) of assets and liabilities in a transaction that affects neither the taxable profit nor the accounting profit, the resulting deferred tax asset or liability is not recognized. In addition, a deferred tax liability is not recognized on any taxable temporary difference arising from the initial recognition of goodwill included in the investment in the subsidiary.

Deferred tax liabilities are generally recognized for all taxable temporary differences. Deferred tax assets are generally recognized for all deductible temporary differences and unused loss carryforwards to the extent that it is probable that taxable profits will be available against which those deductible temporary differences can be utilized.

Deferred tax liabilities are recognized for taxable temporary differences associated with investments in subsidiaries, except where the Company is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred tax assets arising from deductible temporary difference associated with such investments are only recognized to the extent that it is probable that there will be sufficient taxable profits against which to utilize the benefits of the temporary differences and they are expected to reverse in the foreseeable future.

The carrying amount of deferred tax assets is reviewed at each balance sheet date and reduced to the extent that it is no longer probable that sufficient taxable profits will be available to allow all or part of the assets to be recovered. A previously unrecognized deferred tax asset is also reviewed at each balance sheet date and recognized to the extent that it has become probable that future taxable profit will allow the deferred tax asset to be recovered.

Deferred tax liabilities and assets are measured at the tax rates that are expected to apply in the period in which the liabilities are settled or assets are realized, based on tax rates (and tax laws) that have been enacted or substantively enacted by the balance sheet date. The measurement of deferred tax liabilities and assets reflects the tax consequences that would follow from the manner in which the Company expects, at the balance sheet date, to recover or settle the carrying amount of its assets and liabilities.

3) Current and deferred tax for the year

Current and deferred tax are recognized in profit or loss, except when they relate to items that are recognized in other comprehensive income or directly in equity, in which case, the current and deferred tax are also recognized in other comprehensive income or directly in equity, respectively.

5. CRITICAL ACCOUNTING JUDGMENTS AND KEY SOURCES OF ESTIMATION UNCERTAINTY

In the application of the Company's accounting policies, management is required to make judgments, estimations, and assumptions about the carrying amounts of assets and liabilities that are not readily apparent from other sources. The estimates and associated assumptions are based on historical experience and other factors that are considered relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimates are revised if the revisions affect only that period or in the period of the revision and future periods if the revisions affect both current and future periods.

- a. Impairment assessment on the excess of the cost of acquisition of subsidiaries over the Company's share of the fair value of the identifiable net assets

While acquiring a subsidiary, any excess of the cost of acquisition over the Company's share of the fair value of the subsidiary's identifiable assets and liabilities at the date of acquisition is recognized as goodwill, which is included in the carrying amount of the investment and is not amortized but evaluated for impairment annually. The Company assesses goodwill for impairment by estimating the value in use allocated to cash generating units to which goodwill is attributed. In order to assess the value in use, management is required to estimate the expected future cash flows generated from cash generating units and determine appropriate discount rates used for calculating the present value. If the actual cash flow is less than the expected, significant impairment loss may occur.

- b. Acquisition of subsidiaries

After the acquisition of a subsidiary, the Company should identify the difference between the investment cost and the Company's share of the fair value of the subsidiary's identifiable assets acquired and liabilities assumed. It involves critical judgments and estimations when determining the aforementioned fair values, including the type of intangible assets that may be identified and the related estimated cash flows or the relief from expenses. The related estimation and assumption, which were adopted by the management, may be of high uncertainty related to the semiconductor industry varied by economic trends.

6. INVESTMENTS ACCOUNTED FOR USING THE EQUITY METHOD

The investments accounted for using the equity method were the Company's investments in subsidiaries:

	December 31			
	2019		2018	
	Carrying Amount	Ownership	Carrying Amount	Ownership
	NT\$	(%)	NT\$	(%)
ASE	\$ 106,730,386	100.0	\$ 102,841,802	100.0
SPIL	155,297,490	100.0	161,020,782	100.0
USIINC	31,982,170	100.0	-	-
USI Global (Note 1)	-	-	33,113,607	100.0
	<u>\$ 294,010,046</u>		<u>\$ 296,976,191</u>	

Please refer to Note 30 to the Company's consolidated financial statements for the year ended December 31, 2018 for the related disclosures regarding the acquisition of SPIL.

The share of profit or loss and other comprehensive income or loss from the investments in subsidiaries accounted for using equity method for the years ended December 31, 2019 and 2018 were based on those subsidiaries' financial statements audited by auditors for the same periods.

7. BORROWINGS

a. Bank loans

	December 31	
	2019	2018
	NT\$	NT\$
Revolving bank loans		
Syndicated bank loans - repayable through May 2020 to May 2023, annual interest rate both were 1.80% as of December 31, 2019 and 2018	\$ 20,000,000	\$ 55,000,000
Others - repayable through March 2021 to December 2021, annual interest rates were 0.84%-0.95% and 0.95% as of December 31, 2019 and 2018, respectively	<u>12,777,000</u>	<u>400,000</u>
	32,777,000	55,400,000
Less: unamortized arrangement fee	<u>10,292</u>	<u>128,083</u>
	32,766,708	55,271,917
Less: current portion	<u>3,322,708</u>	<u>5,371,917</u>
	<u>\$ 29,444,000</u>	<u>\$ 49,900,000</u>

Pursuant to the syndicated bank loans agreements, the Company should meet certain financial covenants which are calculated based on its annual audited consolidated financial statements or semi-annual reviewed consolidated financial statements. The Company was in compliance with all of the financial covenants as of December 31, 2019 and 2018.

b. Long-term bills payable – only as of December 31, 2019

	December 31
	2019
	NT\$
Ta Ching Bills Finance Corporation, repayable through March 2021 and March 2022, annual interest rate was 1.026%	\$ 2,000,000
International Bills Finance Corporation, repayable in March 2021, annual interest rate was 1.046%	2,000,000
Mega Bills Finance Corporation, repayable in March 2022, annual interest rates were 1.036%-1.041%	2,000,000
China Bills Finance Corporation, repayable in March 2021, annual interest rate was 1.046%	<u>1,800,000</u>
	7,800,000
Less: unamortized discounts	<u>4,153</u>
	<u>\$ 7,795,847</u>

8. BONDS PAYABLE – only as of December 31, 2019

	<u>December 31</u> <u>2019</u> NT\$
Unsecured domestic bonds	
Repayable at maturity in April 2024 and interest due annually with annual interest rate at 0.90%	\$ 6,500,000
Repayable at maturity in April 2026 and interest due annually with annual interest rate at 1.03%	3,500,000
Unsecured international bonds	
US\$ 200,000 thousand (linked to New Taiwan dollar), repayable at maturity in October 2022 and interest due quarterly with annual interest rate at 2.15%	6,204,800
US\$ 100,000 thousand (linked to New Taiwan dollar), repayable at maturity in October 2024 and interest due quarterly with annual interest rate at 2.50%	<u>3,102,400</u>
	19,307,200
Less: discounts on bonds payable	<u>25,334</u>
	<u>\$ 19,281,866</u>

In October 2019, the Company offered the second unsecured international bonds in the aggregate amount of US\$300,000 thousand with par value of US\$1,000 thousand. These unsecured international bonds were divided into tranche A, in the amount of US\$200,000 thousand with maturity of 3 years, and tranche B, in the amount of US\$100,000 thousand with maturity of 5 years. The annual interest rates of tranche A and tranche B were 2.15% and 2.50%, respectively. All the proceeds from bonds offering were used to support ASE's green investments by subscribing for ASE's newly issued ordinary shares from its private placement.

9. EQUITY

a. Share capital

Ordinary shares

	<u>December 31</u> <u>2019</u>	<u>2018</u>
Numbers of shares authorized (in thousands)	<u>5,000,000</u>	<u>5,000,000</u>
Numbers of shares reserved (in thousands)		
Employee share options	<u>400,000</u>	<u>400,000</u>
Shares capital authorized	<u>\$ 50,000,000</u>	<u>\$ 50,000,000</u>
Shares capital reserved		
Employee share options	<u>\$ 4,000,000</u>	<u>\$ 4,000,000</u>
Number of shares issued and fully paid (in thousands)	<u>4,330,528</u>	<u>4,321,714</u>

American Depositary Receipts

The Company's ADS represents 2 ordinary shares of the Company. As of December 31, 2019 and 2018, 125,542 thousand and 140,042 thousand ADSs were outstanding and represented approximately 251,084 thousand and 280,085 thousand ordinary shares of the Company, respectively.

b. Capital surplus

	December 31	
	2019	2018
	NT\$	NT\$
May be used to offset a deficit, distributed as cash dividends, or transferred to share capital (1)		
Issuance of ordinary shares	\$ 13,070,330	\$ 12,906,401
Merger by share exchange	117,693,658	117,693,658
Difference between consideration and the carrying amount of the subsidiaries' net assets during actual disposal or acquisition	<u>3,254,489</u>	<u>6,034,102</u>
	<u>134,018,477</u>	<u>136,634,161</u>
May be used to offset a deficit only		
Changes in percentage of ownership interest in subsidiaries (2)	890,425	3,725,885
Treasury share transactions	364,708	182,354
Exercised employee share options	1,443,995	1,366,480
Expired share options	645,903	645,978
Share of changes in capital surplus of associates	16,266	87,136
Dividends that the claim period has elapsed and unclaimed by shareholders	<u>1,942</u>	<u>872</u>
	<u>3,363,239</u>	<u>6,008,705</u>
May not be used for any purpose		
Employee share options	1,304,250	583,542
Others (3)	<u>222,946</u>	<u>48,805</u>
	<u>1,527,196</u>	<u>632,347</u>
	<u>\$ 138,908,912</u>	<u>\$ 143,275,213</u>

- 1) Such capital surplus may be used to offset a deficit; in addition, when the Company has no deficit, such capital surplus may be distributed as cash dividends or transferred to share capital (limited to a certain percentage of the Company's capital surplus and once a year).
- 2) Such capital surplus arises from the effect of changes in ownership interest in a subsidiary resulted from equity transactions other than actual disposal or acquisition, or from changes in capital surplus of subsidiaries accounted for using the equity method.
- 3) Such capital surplus represents the excess of the carrying amount of related accounts over the par value due to employee share options exercised and the Company has not completed registration formalities.

The Company's special shareholders' meeting held in June 2018 resolved to distribute cash to its shareholders in the amount of NT\$10,795,980 thousand from capital surplus arising from issuance of ordinary shares.

c. Retained earnings and dividend policy

The amended Articles of Incorporation of the Company (the "Articles") approved in shareholders' meeting in June 2019 provides that annual net income shall be distributed in the following order:

- 1) Replenishment of deficits;
- 2) 10.0% as legal reserve;
- 3) Special reserve appropriated or reversed in accordance with laws or regulations set forth by the authorities concerned;

For the policies on the distribution of employees' compensation and remuneration of directors, refer to employees' compensation and remuneration of directors in Note 10(d).

The Company is currently in the mature growth stage. To meet the capital needs for business development now and in the future and satisfy the shareholders' demand for cash inflows, the Company shall use residual dividend policy to distribute dividends, of which the cash dividend is not lower than 30% of the total dividend distribution, with the remainder to be distributed in shares. A distribution plan is also to be made by the board of directors and passed for resolution in the shareholders' meeting.

Appropriation of earnings to legal reserve shall be made until the legal reserve equals the Company's share capital. Legal reserve may be used to offset deficits. If the Company has no deficit and the legal reserve exceeded 25% of the Company's share capital surplus, the excess may be transferred to capital or distributed in cash.

Items referred to under Rule No. 1010012865 and Rule No. 1010047490 issued by the FSC and in the directive titled "Questions and Answers for Special Reserves Appropriated Following Adoption of IFRSs" should be appropriated to or reversed from a special reserve by the Company.

The appropriation of earnings for 2018 resolved at the Company's shareholders' meeting in June 2019, was as follows:

	Appropriation of Earnings	Dividends Per Share
	NT\$	NT\$ (in dollars)
Legal reserve	\$ 2,203,895	
Special reserve	3,548,844	
Cash dividends	<u>10,806,454</u>	\$2.5
	<u><u>\$ 16,559,193</u></u>	

d. Others equity

- 1) Exchange differences on translating foreign operations

	For the Year Ended December 31	
	2019	2018
	NT\$	NT\$
Balance at January 1	\$ (5,887,675)	\$ (6,732,760)
Share of subsidiaries accounted for using the equity method	<u>(4,874,110)</u>	<u>845,085</u>
Balance at December 31	<u><u>\$(10,761,785)</u></u>	<u><u>\$ (5,887,675)</u></u>

2) Unrealized gain (loss) on financial assets at FVTOCI

	For the Year Ended December 31	
	2019	2018
	NT\$	NT\$
Balance at January 1	\$ (1,015,107)	\$ 135,517
Unrealized gain (loss) recognized during the year		
Share of subsidiaries accounted for using the equity method	1,333,351	(1,016,860)
Realized gain recognized for the year		
Share of subsidiaries accounted for using the equity method	<u>(404,156)</u>	<u>(133,764)</u>
Balance at December 31	<u>\$ (85,912)</u>	<u>\$ (1,015,107)</u>

e. Treasury shares (in thousand shares)

	Beginning Balance	Addition	Decrease	Ending Balance
<u>2019</u>				
Shares held by subsidiaries	<u>72,941</u>	<u>-</u>	<u>-</u>	<u>72,941</u>
<u>2018</u>				
Shares held by subsidiaries	145,883	-	(72,942)	72,941
Shares reserved for bonds conversion	120,000	-	(120,000)	-
Shares repurchased from dissenting shareholders in accordance with Business Mergers and Acquisitions Act	<u>-</u>	<u>1,852</u>	<u>(1,852)</u>	<u>-</u>
	<u>265,883</u>	<u>1,852</u>	<u>(194,794)</u>	<u>72,941</u>

The Company's shares held by its subsidiaries at each balance sheet date were as follows:

	Shares Held By Subsidiaries (In thousand shares)	Carrying amount NT\$	Fair Value NT\$
<u>December 31, 2019</u>			
ASE Test Limited	44,100	\$ 1,380,721	\$ 3,669,140
J & R Holding Limited	23,352	381,709	1,942,876
ASE Test, Inc.	<u>5,489</u>	<u>196,677</u>	<u>456,717</u>
	<u>72,941</u>	<u>\$ 1,959,107</u>	<u>\$ 6,068,733</u>

(Continued)

	Shares Held By Subsidiaries (In thousand shares)	Carrying amount NT\$	Fair Value NT\$
<u>December 31, 2018</u>			
ASE Test Limited	44,100	\$ 1,380,721	\$ 2,571,044
J & R Holding Limited	23,352	381,709	1,361,415
ASE Test, Inc.	<u>5,489</u>	<u>196,677</u>	<u>320,031</u>
	<u>72,941</u>	<u>\$ 1,959,107</u>	<u>\$ 4,252,490</u> (Concluded)

Fair value (Level 1) of the Company's shares held by subsidiaries is based on the closing price from an available published price quotation.

In March 2018, ASE's board of directors approved, in accordance with Business Mergers and Acquisitions Act, to repurchase ASE's 1,852 thousand ordinary shares at NT\$38.5 per share held by the shareholders dissenting on the share exchange transaction which has been approved by both of ASE's and SPIL's special shareholders' meetings on February 12, 2018. In addition, ASE's board of directors approved a capital reduction in April 2018 to cancel ASE's 121,852 thousand treasury shares and the record date was April 9, 2018. ASE has completed the registration formalities before April 30, 2018.

ASE issued ordinary shares in connection with its merger with its subsidiaries. The shares held by its subsidiaries were reclassified to treasury shares on the proportion owned by ASE. As disclosed in Note 1, ASE's ordinary shares held by subsidiaries were exchanged to the Company's ordinary shares on April 30, 2018 in accordance with the joint share exchange agreement.

The subsidiaries holding the aforementioned treasury shares retain shareholders' rights except the rights to participate in any capital increase by cash and voting.

10. PROFIT BEFORE INCOME TAX

a. Other income

	For the Year Ended December 31	
	2019	2018
	NT\$	NT\$
Remuneration to directors from subsidiaries	\$ 147,052	\$ -
Gain on remeasurement of investments accounted for using equity method	-	7,571,882
Others	<u>89,150</u>	<u>(2)</u>
	<u>\$ 236,202</u>	<u>\$ 7,571,880</u>

As disclosed in Note 1, the Company acquired all issued and outstanding ordinary shares of SPIL on April 30, 2018 (the acquisition date) in accordance with the joint share exchange agreement and had the control over SPIL. The investment in SPIL originally accounted for using the equity method was remeasured to the fair value at the acquisition date. The gain arising on remeasurement of NT\$7,571,882 thousand was then recognized.

b. Finance costs

	For the Year Ended December 31	
	2019	2018
	NT\$	NT\$
Total interest expense for financial liabilities measured at amortized cost		
Interests on bank loans	\$ 793,184	\$ 965,355
Interests on loans from related parties	279,636	165,534
Interests on bonds	119,292	-
Other finance costs	<u>760</u>	<u>114</u>
	<u>\$ 1,192,872</u>	<u>\$ 1,131,003</u>

c. Employee benefits expense

	For the Year Ended December 31	
	2019	2018
	NT\$	NT\$
Post-employment benefits		
Defined contribution plans	\$ 1,892	\$ 1,062
Equity-settled share-based payments	40,338	2,414
Other employee benefits	<u>254,932</u>	<u>128,270</u>
	<u>\$ 297,162</u>	<u>\$ 131,746</u>
Summary of employee benefits expense by function		
Operating expenses	<u>\$ 297,162</u>	<u>\$ 131,746</u>

d. Employees' compensation and the remuneration to directors

The Articles before and after the amendment approved in shareholders' meeting in June 2019 both stipulates to distribute employees' compensation and remuneration to directors at the rates in 0.01%-1.00% and no higher than 0.75%, respectively, of net profit before income tax, employees' compensation and remuneration to directors.

	For the Year Ended December 31, 2019		For the Year Ended December 31, 2018	
	Accrual rate	Accrual amount	Accrual rate	Accrual amount
		NT\$		NT\$
Employees' compensation	0.20%	\$ 34,400	0.20%	\$ 45,430
Remuneration to directors	0.40%	68,803	0.15%	34,073

If there is a change in the proposed amounts after the parent company only financial statements authorized for issue, the differences are recorded as a change in accounting estimate and will be adjusted in the following year.

In March 2019, the board of directors resolved the appropriations of employees' compensation and remuneration to directors in cash for 2018. The differences between the resolved amounts and the accrued amounts reflected in the parent company only financial statements for the year ended December 31, 2018 were deemed changes in estimates. The difference was NT\$3 thousand and had

been adjusted in net profit for the year ended December 31, 2019.

	For Year 2018	
	Employees' compensation	Remuneration to directors
	NT\$	NT\$
Resolved by the board of directors	\$ 45,430	\$ 34,070
Recognized in the parent company only financial statements	\$ 45,430	\$ 34,073

Information on the employees' compensation and the remuneration to directors resolved by the board of directors are available on the Market Observation Post System website of the Taiwan Stock Exchange (the "TSE").

11. INCOME TAX

The Company and its subsidiaries expected to file a consolidated tax return for corporate income tax starting from 2019 and for unappropriated earnings starting from 2018. As a result, NT\$37,724 thousand was recognized in other receivables from related parties.

a. Income tax recognized in profit or loss

The major components of income tax expense were as follows:

	For the Year Ended December 31	
	2019	2018
	NT\$	NT\$
Current income tax		
In respect of the current year	\$ (29,033)	\$ -
Income tax on unappropriated earnings	273,988	-
Income tax expense recognized in profit or loss	\$ 244,955	\$ -

A reconciliation of income tax expense calculated at the statutory rates and income tax expense recognized in profit or loss was as follows:

	For the Year Ended December 31	
	2019	2018
	NT\$	NT\$
Profit before income tax	\$ 17,094,764	\$ 25,262,356
Income tax expense calculated at the statutory rate	\$ 3,418,953	\$ 5,052,471
Non-deductible expenses in determining taxable income	250,590	226,178
Tax-exempt income	(3,708,008)	(5,319,679)
Unrecognized loss carryforwards and temporary differences	740	41,030
Additional income tax on unappropriated earnings	273,988	-
Non-deductible withholding tax	8,692	-
Income tax expense recognized in profit or loss	\$ 244,955	\$ -

The Income Tax Act in the R.O.C. was amended in 2018, and the corporate income tax rate was

adjusted from 17% to 20%. In addition, the rate of the corporate surtax applicable to the 2018 unappropriated earnings was reduced from 10% to 5%.

In July 2019, the President of the R.O.C. announced the amendments to the Statute for Industrial Innovation, which stipulate that the amounts of unappropriated earnings in 2018 and thereafter that are reinvested in the construction or purchase of certain assets or technologies are allowed as deduction when computing the income tax on unappropriated earnings.

b. Income tax recognized in other comprehensive income

	For the Year Ended December 31	
	2019	2018
	NT\$	NT\$
Deferred income tax		
Share of other comprehensive income of subsidiaries	\$ 72,198	\$ 58,798

c. Income tax assessments

The tax returns of the Company through 2018 has not been examined by the tax authorities.

12. EARNINGS PER SHARE

The earnings and weighted average number of ordinary shares outstanding in the computation of earnings per share were as follows:

Net profit for the year

	For the Year Ended December 31	
	2019	2018
	NT\$	NT\$
Profit for the year	\$ 16,849,809	\$ 25,262,356
Effect of potentially dilutive ordinary shares:		
Employee share options issued by subsidiaries	(385,865)	(418,295)
Earnings used in the computation of diluted earnings per share	\$ 16,463,944	\$ 24,844,061

Weighted average number of ordinary shares outstanding (in thousand shares):

	For the Year Ended December 31	
	2019	2018
Weighted average number of ordinary shares in the computation of basic earnings per share	4,251,964	4,245,247
Effect of potentially dilutive ordinary shares:		
Employee share options	10,232	5,103
Employees' compensation	570	779
Weighted average number of ordinary shares in computation of diluted earnings per share	4,262,766	4,251,129

The Company is able to settle the employees' compensation by cash or shares. The Company assumed that the entire amount of the compensation would be settled in shares and the resulting potential shares were included in the weighted average number of ordinary shares outstanding used in the computation of diluted

earnings per share if the effect is dilutive. Such dilutive effect of the potential shares was included in the computation of diluted earnings per share until shareholders approve the number of shares to be distributed to employees at their meeting in the following year.

13. SHARE-BASED PAYMENT ARRANGEMENTS

a. Employee share option plans of the Company

The Company's Option Plan

In order to attract, retain and reward employees, the Company has its employee share option plan for the Group's full-time employees and registered 150,000 thousand share options in 2018. Each share option represents the right to purchase one ordinary share of the Company when exercised. Under the terms of the plan, share options are granted at an exercise price equal to or not less than the closing price of the ordinary shares listed on the TSE at the issue date. The right of those share options granted under the plan is valid for 10 years, non-transferable and exercisable at certain percentages subsequent to the second anniversary of the grant date. For any subsequent changes in the Company's capital structure or when cash dividend per ordinary share exceeds 1.5% of the market price per ordinary share, the exercise price is accordingly adjusted.

ASE's Option Plans assumed by the Company

ASE had five employee share option plans for the Group's full-time employees. Each share option represents the right to purchase one ordinary share of ASE when exercised. Under the terms of the plans, share options are granted at an exercise price equal to or not less than the closing price of the ordinary shares listed on the TSE at the issue date. The option rights of these plans are valid for 10 years, non-transferable and exercisable at certain percentages subsequent to the second anniversary of the grant date. For any subsequent changes in ASE's capital structure, the exercise price was accordingly adjusted. As disclosed in Note 1, the Company assumed ASE's obligations of outstanding employee share option plans starting from April 30, 2018 and each share option represents the right to purchase 0.5 ordinary share of the Company with all other terms and conditions held constant.

Information about share options that ASE granted for the period from January 1, 2018 through April 29, 2018 was as follows:

	For the Period from January 1, 2018 through April 29, 2018	
	Number of Options (In Thousands)	Weighted Average Exercise Price Per Share (NT\$)
Balance at January 1	135,961	\$ 30.2
Options forfeited	(1,692)	36.3
Options exercised	(20,557)	26.0
Options transferred to the Company in accordance with the joint share exchange agreement	<u>(113,712)</u>	30.9
Balance at April 29	<u>-</u>	-
Options exercisable, end of period	<u>-</u>	-

Information about the share option plans that the Company granted and assumed for the year ended December 31, 2019 and for the period from April 30, 2018 through December 31, 2018 was as follows:

	For the Year ended December 31			
	2019		2018	
	Number of Options (In Thousands)	Weighted Average Exercise Price Per Share (NT\$)	Number of Options (In Thousands)	Weighted Average Exercise Price Per Share (NT\$)
Balance, beginning of period	183,814	\$ 58.1	-	\$ -
Transferred from ASE at April 30	-	-	56,856	61.7
Options granted	-	-	131,863	56.4
Options forfeited	(4,214)	61.8	(1,582)	71.5
Options exercised	<u>(8,814)</u>	48.4	<u>(3,323)</u>	43.6
Balance at December 31	<u>170,786</u>	57.0	<u>183,814</u>	58.1
Options exercisable, end of year	<u>33,822</u>	63.5	<u>36,354</u>	58.1
Fair value of options granted (NT\$)	<u>\$ -</u>		<u>\$16.28-19.12</u>	

The weighted average share price at the dates of share options for the year ended December 31, 2019, the period from April 30, 2018 through December 31, 2018, and the period from January 1, 2018 through April 29, 2018 was NT\$69.3, NT\$68.5 and NT\$41.0, respectively.

Information about the outstanding share options that the Company granted and assumed at each balance sheet date was as follows:

	Range of Exercise Price Per Share (NT\$)	Weighted Average Remaining Contractual Life (Years)
December 31, 2019		
ASE 4 th share options	\$ 40.8-45.2	0.5
ASE 5 th share options	73.0	5.7
The Company 1 st share options	56.4	8.9
December 31, 2018		
ASE 4 th share options	40.8-45.2	1.5
ASE 5 th share options	73.0	6.7
The Company 1 st share options	56.4	9.9

b. Fair value of share option plan

The fair value of share options granted by the Company was measured the using trinomial tree model and the inputs to the model were as follows:

Share price at the grant date	NT\$58.80 per share
Exercise price	NT\$56.40 per share
	(Continued)

Expected volatility	27.77%-28.86%
Expected lives	4.8 years-7.0 years
Expected dividend yield	-
Risk free interest rate	0.73%-0.80%
	(Concluded)

Expected volatility was based on the Company's historical share prices volatility.

For the year ended December 31, 2019 and 2018, employee benefit expense recognized by the Company were NT\$40,338 thousand and NT\$2,414 thousand, respectively.

14. CASH FLOWS INFORMATION

a. Non-cash transaction

As disclosed in Note 1, the Company and USI Global resolved to proceed with the merge which was completed in January 2019. After the merge, the Company is the surviving company while USI Global is the dissolving company, and NT\$748,845 thousand was received from USI Global due to the merge.

Except the aforementioned and those disclosed in other notes to the parent company only financial statements, the Company entered into the following investing activities affecting both cash and non-cash items for the year ended December 31, 2018:

Dividends receivable from subsidiaries	\$ 91,689,318
Less: Payable for consideration representing the ordinary shares originally held by ASE	<u>(53,109,760)</u>
	<u>\$ 38,579,558</u>
Consideration transferred for acquisition of SPIL	\$ 173,657,543
Less: Payable for consideration representing the ordinary shares originally held by ASE	<u>(53,109,760)</u>
	<u>\$ 120,547,783</u>

b. Changes in liabilities arising from financing activities

For the year ended December 31, 2019

	<u>Bonds payable</u> NT\$	<u>Long-term borrowings</u> NT\$	<u>Other payables to related parties</u> NT\$	<u>Total</u> NT\$
Balance at January 1, 2019	\$ -	\$ 55,271,917	\$ 38,600,030	\$ 93,871,947
Net financing cash flows	19,279,033	(14,823,000)	(5,720,000)	(1,263,967)
Non-cash changes				
Amortization of issuance cost	2,833	113,638	-	116,471
Others	<u>-</u>	<u>-</u>	<u>181</u>	<u>181</u>
Balance at December 31, 2019	<u>\$ 19,281,866</u>	<u>\$ 40,562,555</u>	<u>\$ 32,880,211</u>	<u>\$ 92,724,632</u>

	Long-term borrowings	Other payables to related parties	Total
	NT\$	NT\$	NT\$
Balance at January 1, 2018	\$ -	\$ -	\$ -
Net financing cash flows	55,085,000	38,600,000	93,685,000
Non-cash changes			
Amortization of issuance cost	186,917	-	186,917
Others	-	30	30
Balance at December 31, 2018	<u>\$ 55,271,917</u>	<u>\$ 38,600,030</u>	<u>\$ 93,871,947</u>

15. CAPITAL MANAGEMENT

The capital structure of the Company consists of debt and equity. The Company manages its capital to ensure that the Company will be able to continue as going concerns while maximizing the return to shareholders through the optimization of the debt and equity balance. Key management personnel of the Company periodically reviews the cost of capital and the risks associated with each class of capital. In order to balance the overall capital structure, the Company may adjust the amount of dividends paid to shareholders, the number of new shares issued or repurchased, and the amount of new debt issued or existing debt redeemed.

The Company is not subject to any externally imposed capital requirements except those discussed in Note 7.

16. FINANCIAL INSTRUMENTS

a. Categories of financial instruments

	December 31	
	2019	2018
	NT\$	NT\$
Financial assets		
Measured at amortized cost (Note 1)	\$ 182,567	\$ 84,747
Financial liabilities		
Measured at amortized cost (Note 2)	93,015,773	94,048,602

Note 1: The balances included financial assets measured at amortized cost which comprise cash and other receivables.

Note 2: The balances included financial liabilities measured at amortized cost which comprise other payables (including other payables to related parties), bonds payable and long-term borrowings (including current portion).

b. Financial risk management objectives and policies

The Company is an industrial investment holding company, and the financial risk management objectives and policies are disclosed in Note 34 to the Company's consolidated financial statements.

1) Market risk

The Company borrowed funds at floating interest rates. As of December 31, 2019 and 2018, the financial assets and the financial liabilities exposed to interest rate risk were NT\$182,560 thousand, NT\$78,075 thousand, NT\$73,457,000 thousand and NT\$94,000,000 thousand, respectively.

Bond payable of the Company was valued at fixed interest rates and measured at amortized cost. Therefore, it was not included in sensitivity analysis. For the assets and the liabilities with floating interest rates, a 100 basis point increase or decrease was used when reporting interest rate risk internally to key management personnel. If interest rates had been 100 basis points (1%) higher or lower and all other variables held constant, the Company's profit before income tax for the year ended December 31, 2019 and 2018 would have decreased or increased approximately by NT\$733,000 thousand and NT\$940,000 thousand.

2) Credit risk

Credit risk refers to the risk that counterparty will default on its contractual obligations resulting in financial loss to the Company. The Company's credit risk arises from cash. The Company's maximum exposure to credit risk was the carrying amounts of financial assets in the balance sheets.

3) Liquidity risk

The Company manages liquidity risk by maintaining adequate banking facilities to fulfill the demand for cash flow used in the Company's operation. The Company also monitors its compliance with all the loan covenants. Liquidity risk is not considered to be significant.

In the table below, financial liabilities with a repayment on demand clause were included in the earliest time band regardless of the probability of counter-parties choosing to exercise their rights. The maturity dates for other non-derivative financial liabilities were based on the agreed repayment dates.

To the extent that interest flows are floating rate, the undiscounted amounts were derived from the interest rates at each balance sheet date.

	On Demand or Less than 1 Month NT\$	1 to 3 Months NT\$	3 Months to 1 Year NT\$	1 to 5 Years NT\$	More than 5 Years NT\$
<u>December 31, 2019</u>					
Non-derivative financial liabilities					
Non-interest bearing	\$ 100,804	\$ 310	\$ 78,695	\$ -	\$ -
Floating interest rate liabilities	46,297	92,594	3,714,733	37,916,138	-
Fixed interest rate liabilities	<u>52,741</u>	<u>-</u>	<u>252,772</u>	<u>16,762,446</u>	<u>3,572,100</u>
	<u>\$ 199,842</u>	<u>\$ 92,904</u>	<u>\$ 4,046,200</u>	<u>\$ 54,678,584</u>	<u>\$ 3,572,100</u>
<u>December 31, 2018</u>					
Non-derivative financial liabilities					
Non-interest bearing	\$ 85,080	\$ 353	\$ 5,763	\$ -	\$ -
Floating interest rate liabilities	<u>82,679</u>	<u>165,358</u>	<u>44,786,459</u>	<u>52,004,044</u>	<u>-</u>
	<u>\$ 167,759</u>	<u>\$ 165,711</u>	<u>\$ 44,792,222</u>	<u>\$ 52,004,044</u>	<u>\$ -</u>

The amounts included above for floating interest rate instruments for non-derivative financial liabilities was subject to change if changes in floating interest rates differ from those estimates of interest rates determined at each balance sheet date.

17. RELATED PARTY TRANSACTIONS

The significant transactions between the Company and its related parties are summarized as follows:

a. Related parties

<u>Related Party Name</u>	<u>Relationship with the Company</u>
ASE	Subsidiary
ASE Test, Inc.	Sub-subsidiary
ASE Electronics Inc.	Sub-subsidiary
J&R Industrial Inc.	Sub-subsidiary

b. Loans from related parties

<u>Related Party Category / Name</u>	<u>December 31</u>	
	<u>2019</u>	<u>2018</u>
	<u>NT\$</u>	<u>NT\$</u>
Subsidiary / ASE	\$ 26,500,000	\$ 29,900,000
Sub-subsidiary / ASE Test, Inc.	4,980,000	8,000,000
Sub-subsidiary / ASE Electronics Inc.	1,000,000	700,000
Sub-subsidiary / J&R Industrial Inc.	<u>400,000</u>	<u>-</u>
	<u>\$ 32,880,000</u>	<u>\$ 38,600,000</u>

Interest expense

<u>Related Party Category / Name</u>	<u>For the Year Ended December 31</u>	
	<u>2019</u>	<u>2018</u>
	<u>NT\$</u>	<u>NT\$</u>
Subsidiary / ASE	\$ 225,267	\$ 142,639
Sub-subsidiary / ASE Test, Inc.	48,151	22,711
Sub-subsidiary / ASE Electronics Inc.	4,569	184
Sub-subsidiary / J&R Industrial Inc.	<u>1,649</u>	<u>-</u>
	<u>\$ 279,636</u>	<u>\$ 165,534</u>

The interest rates for the loans from related parties were comparable to market interest rates. The loans from related parties were all unsecured.

c. Endorsements and guarantees provided by related parties

Related Party Category / Name	December 31	
	2019	2018
	NT\$	NT\$
Subsidiary / ASE		
Endorsement/guarantee amount	\$ 20,027,570	\$ 55,075,819
Amount actually drawn	\$ 20,027,570	\$ 55,075,819

d. Compensation to key management personnel

	For the Year Ended December 31	
	2019	2018
	NT\$	NT\$
Short-term employee benefits	\$ 111,205	\$ 137,395
Share-based payments	17,639	1,840
	\$ 128,844	\$ 139,235

The compensation to the Company's key management personnel is determined according to personal performance and market trends.

18. ADDITIONAL DISCLOSURES

The following are the additional disclosures required by the Securities and Futures Bureau for the Company:

- a. Financial provided: Please see Table 1 attached;
- b. Endorsement/guarantee provided: Please see Table 2 attached;
- c. Marketable securities held (excluding investments in subsidiaries, associates and joint ventures): Please see Table 3 attached;
- d. Marketable securities acquired and disposed of at costs or prices of at least NT\$300 million or 20% of the paid-in capital: Please see Table 4 attached;
- e. Acquisition of individual real estate properties at costs of at least NT\$300 million or 20% of the paid-in capital: Please see Table 5 attached;
- f. Disposal of individual real estate properties at prices of at least NT\$300 million or 20% of the paid-in capital: None;
- g. Total purchases from or sales to related parties of at least NT\$100 million or 20% of the paid-in capital: Please see Table 6 attached;
- h. Receivables from related parties amounting to at least NT\$100 million or 20% of the paid-in capital: Please see Table 7 attached;
- i. Information about the derivative financial instruments transaction: Please see consolidated financial statements Note 7;
- j. Names, locations, and related information of investees over which the Company exercises significant

influence (excluding information on investment in mainland China): Please see Table 8 attached;

k. Information on investment in mainland China

- 1) The name of the investee in mainland China, the main businesses and products, its issued capital, method of investment, information on inflow or outflow of capital, percentage of ownership, income (losses) of the investee, share of profits/losses of investee, ending balance, amount received as dividends from the investee, and the limitation on investee: Please see Table 9 attached;
- 2) Any of the following significant transactions with investee companies in mainland China, either directly or indirectly through a third party, and their prices, payment terms, and unrealized gains or losses:
 - a) The amount and percentage of purchases and the balance and percentage of the related payables at the end of the year: Please see Table 6 attached;
 - b) The amount and percentage of sales and the balance and percentage of the related receivables at the end of the year: Please see Table 6 attached;
 - c) The amount of property transactions and the amount of the resultant gains or losses:
No significant transaction;
 - d) The balance of negotiable instrument endorsements or guarantees or pledges of collateral at the end of the year and the purposes: None;
 - e) The highest balance, the end of year balance, the interest rate range, and total current year interest with respect to financing of funds: Please see Table 1 attached;
 - f) Other transactions that have a material effect on the profit or loss for the year or on the financial position, such as the rendering or receiving of services: None.

ASE TECHNOLOGY HOLDING CO., LTD. AND INVESTEEES

**FINANCINGS PROVIDED
FOR THE YEAR ENDED DECEMBER 31, 2019
(Amounts In Thousands of New Taiwan Dollars)**

No.	Financing Company	Counter-party	Financial Statement Account	Related Party	Maximum Balance for the Period	Ending Balance	Amount Actual Drawn	Interest Rate (%)	Nature for Financing	Transaction Amounts	Reason for Financing	Allowance for Bad Debt	Collateral		Financing Limits for Each Borrowing Company (Note 1)	Financing Company's Total Financing Amount Limits (Note 2)
													Item	Value		
1	ASE	The Company	Other receivables from related parties	Yes	\$ 42,700,000	\$ 26,500,000	\$ 26,500,000	0.72~0.92	The need for short-term financing	\$ -	Operating capital	\$ -	-	\$ -	\$ 45,177,218	\$ 45,177,218
2	ASE Test, Inc.	The Company	Other receivables from related parties	Yes	11,400,000	4,980,000	4,980,000	0.74~0.75	The need for short-term financing	-	Operating capital	-	-	-	12,197,068	12,197,068
		USI Enterprise Limited	Other receivables from related parties	Yes	962,250	962,250	500,370	4.99	The need for short-term financing	-	Operating capital	-	-	-	12,197,068	12,197,068
3	J&R Industrial Inc.	ASE	Other receivables from related parties	Yes	400,000	-	-	0.74	The need for short-term financing	-	Operating capital	-	-	-	404,830	404,830
		The Company	Other receivables from related parties	Yes	400,000	400,000	400,000	0.74~0.75	The need for short-term financing	-	Operating capital	-	-	-	404,830	404,830
4	ASE Electronics Inc.	The Company	Other receivables from related parties	Yes	1,000,000	1,000,000	1,000,000	0.74~0.75	The need for short-term financing	-	Operating capital	-	-	-	1,379,588	1,379,588
5	A.S.E. Holding Limited	ASE	Other receivables from related parties	Yes	1,846,200	-	-	3.54~3.64	The need for short-term financing	-	Operating capital	-	-	-	6,529,581	6,529,581
6	J & R Holding Limited	ASE	Other receivables from related parties	Yes	12,308,000	-	-	3.54~3.92	The need for short-term financing	-	Operating capital	-	-	-	23,530,754	23,530,754
		Global Advanced Packaging Technology Limited	Long-term receivables from related parties	Yes	1,169,200	-	-	0~2.91	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		Omniquest Industrial Limited	Long-term receivables from related parties	Yes	1,264,000	-	-	0~2.91	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		Anstock Limited	Other receivables from related parties	Yes	425,435	-	-	1.84~3.66	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		Innosource Limited	Long-term receivables from related parties	Yes	3,160	-	-	0~2.91	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		ASE Investment (Labuan) Inc.	Long-term receivables from related parties	Yes	1,264,000	-	-	0~2.91	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		ASE Corporation	Long-term receivables from related parties	Yes	104,280	-	-	0~2.89	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
7	Anstock Limited	ASE Assembly & Test (Shanghai) Limited	Other receivables from related parties	Yes	331,150	-	-	3.65~4.19	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
8	ASE Test Limited	ASE	Other receivables from related parties	Yes	14,216,320	6,038,340	6,038,340	0.59~3.64	The need for short-term financing	-	Operating capital	-	-	-	10,912,132	10,912,132
			Long-term receivables from related parties													
		A.S.E. Holding Limited	Other receivables from related parties	Yes	1,076,950	-	-	2.89~2.91	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		J & R Holding Limited	Other receivables from related parties	Yes	8,468,800	-	-	2.83~2.91	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
			Long-term receivables from related parties													
9	ISE Labs, Inc.	J & R Holding Limited	Other receivables from related parties	Yes	1,516,800	-	-	2.79~3.22	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
			Long-term receivables from related parties													
		ASE	Other receivables from related parties	Yes	941,700	899,400	899,400	2.62~3.50	The need for short-term financing	-	Operating capital	-	-	-	1,001,614	1,001,614
		ASE Test Limited	Long-term receivables from related parties	Yes	599,600	599,600	599,600	2.59	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
10	ASE (Korea) Inc.	ASE	Other receivables from related parties	Yes	3,688,200	3,447,700	3,447,700	3.70~4.51	The need for short-term financing	-	Operating capital	-	-	-	6,518,417	6,518,417
11	ASE Japan Co., Ltd.	J & R Holding Limited	Other receivables from related parties	Yes	1,815,625	-	-	0.46	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		ASE	Other receivables from related parties	Yes	884,100	828,000	828,000	0.52~0.53	The need for short-term financing	-	Operating capital	-	-	-	874,975	874,975
		ASE Test Limited	Other receivables from related parties	Yes	552,000	552,000	552,000	0.47	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308

(Continued)

No.	Financing Company	Counter-party	Financial Statement Account	Related Party	Maximum Balance for the Period	Ending Balance	Amount Actual Drawn	Interest Rate (%)	Nature for Financing	Transaction Amounts	Reason for Financing	Allowance for Bad Debt	Collateral		Financing Limits for Each Borrowing Company (Note 1)	Financing Company's Total Financing Amount Limits (Note 2)
													Item	Value		
12	ASE Singapore Pte. Ltd.	J & R Holding Limited	Long-term receivables from related parties	Yes	\$ 474,000	\$ -	\$ -	3.00~3.21	The need for short-term financing	\$ -	Operating capital	\$ -	-	\$ -	\$ 20,096,872	30,145,308
		ASE	Long-term receivables from related parties	Yes	931,200	899,400	899,400	2.62~3.06	The need for short-term financing	-	Operating capital	-	-	-	2,117,120	2,117,120
		ASE Test Limited	Other receivables from related parties	Yes	449,700	449,700	449,700	2.19	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
13	ASE Electronics (M) Sdn. Bhd.	ASE	Other receivables from related parties	Yes	329,780	329,780	329,780	4.76	The need for short-term financing	-	Operating capital	-	-	-	2,241,977	2,241,977
14	ASE (Kun Shan) Inc.	ASE Investment (Kun Shan) Limited	Other receivables from related parties	Yes	2,070	1,934	1,934	4.35	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		ASE Assembly & Test (Shanghai) Limited	Other receivables from related parties	Yes	689,895	644,625	644,625	3.83~3.92	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		ASE (Shanghai) Inc.	Other receivables from related parties	Yes	433,870	429,750	429,750	3.83	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
15	Shanghai Ding Hui Real Estate Development Co., Ltd.	Kun Shan Ding Hong Real Estate Development Co., Ltd.	Other receivables from related parties	Yes	561,041	343,800	343,800	4.35	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		Shanghai Ding Qi Property Management Co., Ltd.	Other receivables from related parties	Yes	45,993	-	-	4.35	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		Shanghai Ding Yu Property Management Co., Ltd.	Other receivables from related parties	Yes	650,805	214,875	214,875	4.35	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		Shanghai Ding Wei Real Development Co., Ltd.	Other receivables from related parties	Yes	3,254,025	1,933,875	1,933,875	4.35	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		Shanghai Ding Fan Department Store Co., Ltd.	Other receivables from related parties	Yes	2,300	-	-	4.35	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
16	Advanced Semiconductor Engineering (China) Ltd.	ASE Assembly & Test (Shanghai) Limited	Other receivables from related parties	Yes	1,241,600	1,199,200	899,400	2.53~3.20	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		ASE WeiHai Inc.	Other receivables from related parties	Yes	614,700	-	-	2.76~2.99	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
		Suzhou ASEN Co., Ltd.	Other receivables from related parties	Yes	899,400	899,400	329,780	2.36	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
17	ASE WeiHai Inc.	ASE Assembly & Test (Shanghai) Limited	Other receivables from related parties	Yes	429,750	429,750	429,750	3.83	The need for short-term financing	-	Operating capital	-	-	-	20,096,872	30,145,308
18	USI Enterprise Limited	ASE	Other receivables from related parties	Yes	12,424,000	7,944,700	7,944,700	2.62~3.64	The need for short-term financing	-	Operating capital	-	-	-	18,730,193	18,730,193
		USHINC	Other receivables from related parties	Yes	2,148,800	2,038,640	1,798,800	2.62~3.64	The need for short-term financing	-	Operating capital	-	-	-	18,730,193	18,730,193
		J&R Holding Limited	Other receivables from related parties	Yes	4,769,350	-	-	2.83~2.91	The need for short-term financing	-	Operating capital	-	-	-	18,730,193	18,730,193
		Chung Hong Electronics Poland Sp. z o.o.	Other receivables from related parties	Yes	156,950	-	-	2.62~3.14	The need for short-term financing	-	Strategic purpose	-	-	-	18,730,193	18,730,193
19	Huntington Holdings International Co.Ltd.	ASE	Other receivables from related parties	Yes	830,790	449,700	449,700	0~3.64	The need for short-term financing	-	Operating capital	-	-	-	19,084,508	19,084,508
20	Real Tech Holdings Limited	ASE	Other receivables from related parties	Yes	1,738,000	1,648,900	1,648,900	0~3.64	The need for short-term financing	-	Operating capital	-	-	-	18,777,819	18,777,819
21	Universal Scientific Industrial (Shanghai) Co., Ltd.	Universal Global Technology (Shanghai) Co., Ltd.	Other receivables from related parties	Yes	3,909,405	859,500	429,750	1.75	The need for short-term financing	-	Operating capital	-	-	-	17,683,336	17,683,336
		Universal Global Technology Co., Limited	Other receivables from related parties	Yes	919,860	-	-	-	The need for short-term financing	-	Operating capital	-	-	-	17,683,336	17,683,336
		Universal Global Electronics (Shanghai) Co., Ltd.	Other receivables from related parties	Yes	459,930	-	-	-	The need for short-term financing	-	Operating capital	-	-	-	17,683,336	17,683,336
		Universal Global Technology (Kunshan) Co., Ltd.	Other receivables from related parties	Yes	459,930	-	-	1.75	The need for short-term financing	-	Operating capital	-	-	-	17,683,336	17,683,336

(Continued)

No.	Financing Company	Counter-party	Financial Statement Account	Related Party	Maximum Balance for the Period	Ending Balance	Amount Actual Drawn	Interest Rate (%)	Nature for Financing	Transaction Amounts	Reason for Financing	Allowance for Bad Debt	Collateral		Financing Limits for Each Borrowing Company (Note 1)	Financing Company's Total Financing Amount Limits (Note 2)
													Item	Value		
22	USI Electronics (Shenzhen) Co., Ltd.	Universal Global Technology (Shanghai) Co., Ltd.	Other receivables from related parties	Yes	\$ 2,207,664	\$ 1,504,125	\$ 1,504,125	1.75	The need for short-term financing	\$ -	Operating capital	\$ -	-	\$ -	\$ 5,674,198	\$ 5,674,198
		Universal Global Technology Co., Limited	Other receivables from related parties	Yes	1,747,734	-	-	2.00	The need for short-term financing	-	Operating capital	-	-	-	5,674,198	5,674,198
		Universal Global Technology (Kunshan) Co., Ltd.	Other receivables from related parties	Yes	459,930	-	-	-	The need for short-term financing	-	Operating capital	-	-	-	5,674,198	5,674,198
23	Universal Global Technology (Kunshan) Co., Ltd.	Universal Global Electronics (Shanghai) Co., Ltd.	Other receivables from related parties	Yes	137,979	-	-	-	The need for short-term financing	-	Operating capital	-	-	-	2,120,317	2,120,317
		Universal Global Technology Co., Limited	Other receivables from related parties	Yes	1,806,480	1,719,000	-	-	The need for short-term financing	-	Operating capital	-	-	-	2,120,317	2,120,317
24	Universal Global Scientific Industrial Co., Ltd.	Universal Scientific Industrial De Mexico S.A.De C.V.	Other receivables from related parties	Yes	1,042,800	539,640	539,640	2.33~3.24	The need for short-term financing	-	Operating capital	-	-	-	2,550,236	2,550,236
25	Universal Global Technology Co., Limited	Universal Global Electronics Co., Ltd.	Other receivables from related parties	Yes	379,200	-	-	-	The need for short-term financing	-	Operating capital	-	-	-	6,190,137	6,190,137
		Universal Scientific Industrial De Mexico S.A.De C.V.	Other receivables from related parties	Yes	4,261,600	1,499,000	1,049,300	2.33~3.24	The need for short-term financing	-	Operating capital	-	-	-	6,190,137	6,190,137
		Chung Hong Electronics Poland Sp. z o.o.	Other receivables from related parties	Yes	359,760	359,760	359,760	2.70	The need for short-term financing	-	Operating capital	-	-	-	6,190,137	6,190,137
26	Universal Scientific Industrial Co., Ltd.	Universal Scientific Industrial De Mexico S.A.De C.V.	Other receivables from related parties	Yes	442,400	419,720	419,720	2.33~3.24	The need for short-term financing	-	Operating capital	-	-	-	1,098,108	1,098,108
27	Universal Global Technology (Shanghai) Co., Ltd.	Universal Global Technology Co., Limited	Other receivables from related parties	Yes	1,214,836	1,203,300	-	-	The need for short-term financing	-	Operating capital	-	-	-	2,401,344	2,401,344
28	SPIL	Siliconware Electronics (Fujian) Co., Limited	Other receivables from related parties	Yes	1,536,120	1,461,150	429,750	3.27~3.79	The need for short-term financing	-	Operating capital	-	-	-	30,004,403	30,004,403
		Siliconware Technology (Suzhou) Limited	Other receivables from related parties	Yes	1,316,580	1,289,250	1,289,250	3.43~3.78	The need for short-term financing	-	Operating capital	-	-	-	30,004,403	30,004,403

(Concluded)

- Note 1: A subsidiaries’ limit amount of lending to a company shall not exceed 40% of the lender’s net worth.
- Note 2: Where an inter-company or inter-firm short-term financing facility is necessary, the total amount of such financing facility shall not exceed 40% of the lender’s net worth. Foreign subsidiaries whose voting shares are 100% owned, directly or indirectly, by the Company as a lender, the aggregate lending amount and the amount lending to a single company shall not exceed 15% and 10%, respectively, of the Company’s net worth as stated in its latest financial statement.
- Note 3: The transactions had been eliminated when preparing consolidated financial statements.

TABLE 2

ASE TECHNOLOGY HOLDING CO., LTD. AND INVESTEEES

ENDORSEMENTS/GUARANTEES PROVIDED
FOR THE YEAR ENDED DECEMBER 31, 2019
(Amounts In Thousands of New Taiwan Dollars, Unless Specified Otherwise)

No.	Endorsement/ Guarantee Provider	Guaranteed Party		Limits on Endorsement /Guarantee Amount Provided to Each Guaranteed Party (Note 1)	Maximum Balance for the Period (Note 3)	Ending Balance (Note 3)	Amount Actually Drawn (Note 3)	Amount of Endorsement/ Guarantee Collateralized by Properties	Ratio of Accumulated Endorsement/Guarantee to Net Equity per Latest Financial Statement (%)	Maximum Endorsement /Guarantee Amount Allowable (Note 2)	Guarantee Provided by Parent Company	Guarantee Provided by A Subsidiary	Guarantee Provided to Subsidiaries in Mainland China
	Name	Name	Nature of Relationship										
1	ASE	The Company	100% voting shares directly owned by the Company	\$ 158,120,264	\$ 55,075,819	\$ 20,027,570	\$ 20,027,570	\$ -	17.73	\$ 169,414,568	No	Yes	No
2	USI Enterprise Limited	Universal Scientific Industrial (France)	More than 50% voting shares indirectly owned by the Company	65,555,675	13,790,800	13,790,800	13,790,800	-	29.45	70,238,223	Yes	No	No

Note 1: The ceilings on the amounts a subsidiary permitted to make endorsements/guarantees for any single entity shall not exceed 140% of the subsidiary’s net worth as stated in its latest financial statement according to “The Process of make in endorsements/guarantees” of the Company.

Note 2: The ceilings on the aggregate amounts a subsidiary permitted to make endorsements/guarantees shall not exceed 150% of the subsidiary’s net worth as stated in its latest financial statement according to “The Process of make in endorsements/guarantees” of the Company.

Note 3: Amount includes principal and interest.

TABLE 3

ASE TECHNOLOGY HOLDING CO., LTD. AND INVESTEEES

**MARKETABLE SECURITIES HELD
DECEMBER 31, 2019
(Amounts In Thousands of New Taiwan Dollars, Unless Specified Otherwise)**

Held Company Name	Marketable Securities Type and Name	Relationship with the Company	Financial Statement Account	December 31, 2019				Note
				Shares/ Units	Carrying Value	Percentage of Ownership (%)	Fair Value	
ASE	Stock							
	H&D Venture Capital Investment Corporation	-	Financial assets at fair value through other comprehensive income - non current	571,283	\$ 7,044	13	\$ 7,044	
	MiTAC Information Technology Corp	-	Financial assets at fair value through other comprehensive income - non current	2,521	14	-	14	
	Asia Pacific Emerging Industry Venture Capital Co, Ltd.	-	Financial assets at fair value through other comprehensive income - non current	6,000,000	38,404	7	38,404	
	StarChips Technology Inc.	-	Financial assets at fair value through other comprehensive income - non current	333,334	-	6	-	
ASE Test, Inc.	Limited Liability Partnership							
	Ripley Cable Holdings I, L.P.	-	Financial assets at fair value through other comprehensive income - non current	-	7,982	4	7,982	
	Stock							
	The Company	Ultimate parent company	Financial assets at fair value through other comprehensive income - non current	5,489,388	456,717	-	456,717	
	Powtec ElectroChemical Corporation	-	Financial assets at fair value through other comprehensive income - non current	33,560,184	109,896	3	109,896	
	MiTAC Information Technology Corp.	-	Financial assets at fair value through other comprehensive income - non current	680,017	3,882	-	3,882	
	Dr. eNose Biotechnology Corporation	-	Financial assets at fair value through other comprehensive income - non current	2,000,000	49,410	4	49,410	
	Neolink Capital Corp.	-	Financial assets at fair value through other comprehensive income - non current	10,000,000	64,377	16	64,377	
	HSBC Holdings Ltd	-	Financial assets at fair value through profit or loss - current	400,000	93,685	-	93,685	
	Tencent Holdings Ltd	-	Financial assets at fair value through profit or loss - current	194,000	280,463	-	280,463	
	Industrial and Commercial Bank of China Limited	-	Financial assets at fair value through profit or loss - current	11,000,000	254,034	-	254,034	
	Ping An Insurance (Group) Company of China, Ltd.	-	Financial assets at fair value through profit or loss - current	1,000,000	354,493	-	354,493	
	China Construction Bank Corporation	-	Financial assets at fair value through profit or loss - current	10,402,000	269,451	-	269,451	
	AIA Group Limited	-	Financial assets at fair value through profit or loss - current	300,000	94,454	-	94,454	
	China Merchants Bank Co., Ltd.	-	Financial assets at fair value through profit or loss - current	2,200,000	339,135	-	339,135	
	China Life Insurance Company Limited	-	Financial assets at fair value through profit or loss - current	1,000,000	83,331	-	83,331	
	BYD Company Limited	-	Financial assets at fair value through profit or loss - current	162,000	24,224	-	24,224	
	Geely Automobile Holdings Ltd.	-	Financial assets at fair value through profit or loss - current	400,000	23,464	-	23,464	
	AAC Technologies Holdings Inc.	-	Financial assets at fair value through profit or loss - current	480,000	125,631	-	125,631	
	BOC Hong Kong (Holdings) Ltd.	-	Financial assets at fair value through profit or loss - current	1,900,000	197,819	-	197,819	

(Continued)

Held Company Name	Marketable Securities Type and Name	Relationship with the Company	Financial Statement Account	December 31, 2019				Note
				Shares/ Units	Carrying Value	Percentage of Ownership (%)	Fair Value	
	China Mobile Ltd.	-	Financial assets at fair value through profit or loss - current	600,000	\$ 151,266	-	\$ 151,266	
	CK Hutchison Holdings Limited	-	Financial assets at fair value through profit or loss - current	200,000	57,196	-	57,196	
	Agricultural Bank of China Limited	-	Financial assets at fair value through profit or loss - current	16,300,000	215,194	-	215,194	
	Bank of China Ltd.	-	Financial assets at fair value through profit or loss - current	16,700,000	214,047	-	214,047	
	CITIC Securities Company Limited	-	Financial assets at fair value through profit or loss - current	200,000	13,687	-	13,687	
	Preferred share HanTech Venture Capital Corporation	-	Financial assets at fair value through profit or loss - non current	25,000,000	287,500	25	287,500	
	Corporate bond Nan Shan Life Insurance Co., Ltd. 1st Perpetual Unsecured Subordinate Corporate Bond Issue in 2016	-	Financial assets at fair value through other comprehensive income - non current	1,000	1,014,872	-	1,014,872	
	Fund Nomura Global Short Duration Bond Fund	-	Financial assets at fair value through profit or loss - current	9,260,031	100,106	-	100,106	
	Fund Taishin Ta Chong Money Market Fund	-	Financial assets at fair value through profit or loss - current	30,754,983	438,603	-	438,603	
	J&R Industrial Inc.	-	Financial assets at fair value through profit or loss - current	4,755,144	70,745	-	70,745	
	Jih Sun Money Market Fund	-	Financial assets at fair value through profit or loss - current	2,616,592	31,444	-	31,444	
	Hua Nan Kirin Money Market Fund	-	Financial assets at fair value through profit or loss - current	1,574,849	21,393	-	21,393	
	Taishin 1699 Money Market Fund	-	Financial assets at fair value through profit or loss - current	2,358,011	27,654	-	27,654	
Luchu Development Corporation	Stock Powerchip Technology Corporation	-	Financial assets at fair value through other comprehensive income - non current	89,659	1,475	-	1,475	
AMPI	Stock United Microelectronics Corp.	-	Financial assets at fair value through profit or loss - current	568	51	-	51	
	Hon Hai Precision Industry Co., Ltd.	-	Financial assets at fair value through profit or loss - current	10,893	213	-	213	
	Winbond Electronics Corporation	-	Financial assets at fair value through profit or loss - current	490,000	US\$ 336 thousand	3	US\$ 336 thousand	
A.S.E. Holding Limited	Stock Global Strategic Investment Inc.	-	Financial assets at fair value through other comprehensive income - non current	544,800	-	4	-	
	SiPhoton, Inc.	-	Financial assets at fair value through other comprehensive income - non current	869,891	US\$ 220 thousand	2	US\$ 220 thousand	
	Global Strategic Investment, Inc. (Samoa)	-	Financial assets at fair value through other comprehensive income - non current					

(Continued)

Held Company Name	Marketable Securities Type and Name	Relationship with the Company	Financial Statement Account	December 31, 2019				Note
				Shares/ Units	Carrying Value	Percentage of Ownership (%)	Fair Value	
J & R Holding Limited	Stock The Company	Ultimate parent company	Financial assets at fair value through other comprehensive income - non current	23,351,881	US\$ 64,806 thousand	1	US\$ 64,806 thousand	
	Limited Liability Partnership Crimson Velocity Fund, L.P.	-	Financial assets at fair value through other comprehensive income - non current	-	US\$ 330 thousand	-	US\$ 330 thousand	
	H&QAP Greater China Growth Fund, L.P.	-	Financial assets at fair value through other comprehensive income - non current	-	US\$ 476 thousand	8	US\$ 476 thousand	
	Beneficiary Certificate Wise Road Industry Investment Fund I, L.P.	-	Financial assets at fair value through profit or loss - non current	-	US\$ 4,662 thousand	13	US\$ 4,662 thousand	
ASE Test Limited	Stock The Company	Ultimate parent company	Financial assets at fair value through other comprehensive income - non current	44,100,236 (Note)	US\$ 122,386 thousand	1	US\$ 122,386 thousand	
	Preferred share Silicon Valley X-Ray, Inc.	-	Financial assets at fair value through other comprehensive income - non current	7,565,555	US\$ 4,993 thousand	13	US\$ 4,993 thousand	
ASE Corporation	Preferred share Bee Computing (HK) Limited	-	Financial assets at fair value through profit or loss - non current	400,000	US\$ 3,000 thousand	1	US\$ 3,000 thousand	
USIINC	Stock Universal Venture Capital Investment Corporation	-	Financial assets at fair value through other comprehensive income - non current	6,200,000	\$ 33,056	5	\$ 33,056	
	Gapertise Inc.	-	Financial assets at fair value through other comprehensive income - non current	275,000	-	4	-	
	WellySun Inc.	-	Financial assets at fair value through other comprehensive income - non current	108,000	1,438	-	1,438	
	Plasmag Technology Inc.	-	Financial assets at fair value through other comprehensive income - non current	733,000	-	2	-	
Huntington Holdings International Co. Ltd.	Stock Superactive Group Company Limited	-	Financial assets at fair value through profit or loss - current	5,548,800	US\$ 149 thousand	-	US\$ 149 thousand	
	Cadence Design SYS Inc.	-	Financial assets at fair value through profit or loss - current	9,633	US\$ 668 thousand	-	US\$ 668 thousand	
	Solid Gain Invenstments Ltd.	-	Financial assets at fair value through other comprehensive income - non current	1,291,400	US\$ 474 thousand	20	US\$ 474 thousand	
	Preferred Stock Techgains I Corporation	-	Financial assets at fair value through other comprehensive income - non current	518,316	US\$ 170 thousand	10	US\$ 170 thousand	
	Techgains II Corporation	-	Financial assets at fair value through other comprehensive income - non current	653,998	US\$ 105 thousand	4	US\$ 105 thousand	

(Continued)

Held Company Name	Marketable Securities Type and Name	Relationship with the Company	Financial Statement Account	December 31, 2019				Note
				Shares/ Units	Carrying Value	Percentage of Ownership (%)	Fair Value	
Unitech Holdings International Co., Ltd.	Stock							
	Superactive Group Company Limited	-	Financial assets at fair value through profit or loss - current	5,613,600	US\$ 151 thousand	-	US\$ 151 thousand	
	WacomCo., Ltd.	-	Financial assets at fair value through profit or loss - non-current	1,200,000	US\$ 4,916 thousand	1	US\$ 4,916 thousand	
	Sequans Communications SA	-	Financial assets at fair value through profit or loss - non-current	370,554	US\$ 278 thousand	-	US\$ 278 thousand	
	Asia Global Venture Co., Ltd.	-	Financial assets at fair value through other comprehensive income - non current	1,000,000	US\$ 595 thousand	10	US\$ 595 thousand	
USI Enterprise Limited	Preferred Stock							
	MoBagel, Inc.	-	Financial assets at fair value through other comprehensive income - non current	117,000	US\$ 26 thousand	1	US\$ 26 thousand	
	Beneficiary Certificate							
	All-Stars Investment Private Partners Fund L.P.	-	Financial assets at fair value through profit or loss - non-current	9,565,310	US\$ 9,683 thousand	2	US\$ 9,683 thousand	
	Stock							
Universal Global Electronics Co., Ltd.	Alibaba Group Holding Ltd.	-	Financial assets at fair value through profit or loss - current	320,000	US\$ 8,513 thousand	-	US\$ 8,513 thousand	
	Ping An Insurance (Group) Company of China, Ltd.	-	Financial assets at fair value through profit or loss - current	640,000	US\$ 7,568 thousand	-	US\$ 7,568 thousand	
	Beneficiary Certificate							
UGTW	PHI FUND, L.P.	-	Financial assets at fair value through profit or loss - non current	6,250,000	US\$ 5,792 thousand	39	US\$ 5,792 thousand	
	Stock							
	TriKnight Capital Corporation	-	Financial assets at fair value through other comprehensive income - non current	29,625,000	\$ 181,147	5	\$ 181,147	

(Concluded)

Note: The Company’s stocks held by ASE Test Limited, 44,100,236 shares, are all trusted without power to decide the allocation of the trust assets.

TABLE 4

ASE TECHNOLOGY HOLDING CO., LTD. AND INVESTEEES

MARKETABLE SECURITIES ACQUIRED AND DISPOSED OF AT COSTS OR PRICES OF AT LEAST NT\$300 MILLION OR 20% OF THE PAID-IN CAPITAL
FOR THE YEAR ENDED DECEMBER 31, 2019
(Amounts In Thousands of New Taiwan Dollars)

Company Name	Marketable Securities Type and Name	Financial Statement Account	Counter-party	Nature of Relationship	Beginning Balance		Acquisition		Disposal				Ending Balance	
					Shares/Units	Amount (Note 1)	Shares/Units	Amount	Shares/Units	Amount	Carrying Value	Gain/Loss on Disposal	Shares/Units	Amount (Note 1)
The Company	Stock ASE	Investments accounted for using the equity method	(Note 2)	-	5,528,783,764	\$ 102,841,802	465,360,000	\$ 9,307,200	-	\$ -	\$ -	\$ -	5,994,143,764	\$ 106,730,385
ASE	Stock ASEEE	Investments accounted for using the equity method	(Note 2, TDK)	-	76,500,000	180,494	167,267,845	1,685,940	58,527,345 (Note 3)	-	-	-	185,240,500	1,224,385
J & R Holding Limited	Capital Suzhou ASEN Semiconductors Co., Ltd.	Investments accounted for using the equity method	Beijing Purple Capital Management Limited	-	-	US\$ 128,808 thousand	-	US\$ 97,748 thousand	-	US\$ -	US\$ -	US\$ -	-	US\$ 206,827 thousand
	Stock Global Advanced Packaging Technology Limited	Investments accounted for using the equity method	(Note 2)	-	190,000,000	US\$ 495,853 thousand	17,370,000	US\$ 17,370 thousand	-	US\$ -	US\$ -	US\$ -	207,370,000	US\$ 520,346 thousand
Universal Global Technology Co., Limited	Stock Universal Global Electronics Co., Ltd.	Investments accounted for using the equity method	(Note 2)	-	9,000,000	US\$ 8,680 thousand	18,000,000	US\$ 18,000 thousand	-	US\$ -	US\$ -	US\$ -	27,000,000	US\$ 25,526 thousand
	M-Universe Investments PTE. LTD.	Investments accounted for using the equity method	(Note 2)	-	-	US\$ -	59,157,419	US\$ 58,688 thousand	-	US\$ -	US\$ -	US\$ -	59,157,419	US\$ 60,530 thousand
	Ping An Insurance (Group) Company of China, Ltd.	Financial assets at fair value through profit or loss - current	-	-	920,000	US\$ 9,966 thousand	-	US\$ -	920,000	US\$ 10,813 thousand	US\$ 9,966 thousand	US\$ 847 thousand	-	US\$ -
	Alibaba Group Holding Ltd.	Financial assets at fair value through profit or loss - current	-	-	52,000	US\$ 9,939 thousand	-	US\$ -	52,000	US\$ 10,140 thousand	US\$ 9,939 thousand	US\$ 201 thousand	-	US\$ -
SPIL	Stock SPIL (B.V.I.) Holding Limited	Investments accounted for using the equity method	(Note 2)	-	179,400,000	\$ 13,587,935	110,000,000	\$ 3,351,150	-	\$ -	\$ -	\$ -	289,400,000	\$ 14,098,034
SPIL (B.V.I.) Holding Limited	Stock SPIL (Cayman) Holding Limited	Investments accounted for using the equity method	(Note 2)	-	181,200,000	13,424,211	110,000,000	3,351,150	-	-	-	-	291,200,000	13,914,290
SPIL (Cayman) Holding Limited	Capital Siliconware Electronics (Fujian) Co., Limited	Investments accounted for using the equity method	(Note 2)	-	90,000,000	2,642,056	45,000,000	1,394,325	-	-	-	-	135,000,000	3,430,983
	Siliconware Technology (Suzhou) Limited	Investments accounted for using the equity method	Tibet Zixi Electronic Technology Co., Ltd.	-	111,703,596	7,650,597	47,872,970	4,961,839	-	-	-	-	159,576,566	10,306,041

Note 1: The balance of investment accounted for using the equity method including share of profits/losses of investees and other adjustment related to equity.

Note 2: Capital increase by cash.

Note 3: Associate's capital reduction to offset deficit.

TABLE 5

ASE TECHNOLOGY HOLDING CO., LTD. AND INVESTEEES

**ACQUISITION OF INDIVIDUAL REAL ESTATE PROPERTIES AT COSTS OF AT LEAST NT\$300 MILLION OR 20% OF THE PAID-IN CAPITAL
FOR THE YEAR ENDED DECEMBER 31, 2019
(Amounts In Thousands of New Taiwan Dollars)**

Company Name	Types of Property	Transaction Date	Transaction Date (Tax excluded)	Payment Term	Counter-party	Nature of Relationships	Prior Transaction of Related Counter-party				Price Reference	Purpose of Acquisition	Other Terms
							Owner	Relationships	Transfer Date	Amount			
ASE	No. 1, 3, 5 and 7, Chuangyi S. Rd. in Nantze 2nd Export Processing Zone	September 12, 2019	\$ 2,326,000	Has been paid fully	Hung Ching Development & Construction Co.	Associate	-	-	-	\$ -	Based on independent professional appraisal reports	Future production expansion demands and supply quality of production improvement	None
	Facilities and equipment engineering of ASE Kaohsiung plant	January 1, 2019 - December 31, 2019	545,142	There is 155,921 thousand will be paid after acceptance check.	Aircare Engineering Corp.	None	-	-	-	-	Request for quotation, price comparison and price negotiation	Facilities and equipment expansion	None
	Facilities and equipment engineering of ASE Kaohsiung plant	January 1, 2019 - December 31, 2019	323,890	There is 138,270 thousand will be paid after acceptance check.	Marketch International Corp.	None	-	-	-	-	Request for quotation, price comparison and price negotiation	Facilities and equipment expansion	None
	Facilities and equipment engineering of ASE Kaohsiung plant	January 1, 2019 - December 31, 2019	322,292	There is 123,119 thousand will be paid after acceptance check.	Kun Lin Engineering Co., Ltd.	None	-	-	-	-	Request for quotation, price comparison and price negotiation	Facilities and equipment expansion	None
Siliconware Electronics (Fujian) Co., Limited	Facility engineering	January 1, 2019 - December 31, 2019	811,720	Based on the terms agreed upon by both parties	China MCC20 Group Corp. Ltd.	None	-	-	-	-	Request for quotation, price comparison and price negotiation	For operating purpose	None
SPIL	Facility engineering	January 1, 2019 - December 31, 2019	790,636	Based on the terms agreed upon by both parties	Acter Group Corporation Limited	None	-	-	-	-	Request for quotation, price comparison and price negotiation	For operating purpose	None
	Facility engineering	January 1, 2019 - December 31, 2019	662,914	Based on the terms agreed upon by both parties	Chung Yuang Electrica Consulting Co., Ltd.	None	-	-	-	-	Request for quotation, price comparison and price negotiation	For operating purpose	None
	Plant and auxiliary facilities	July 30, 2019	668,000	Has been paid fully	Genius Electronic Optical Co., Ltd.	None	-	-	-	-	Based on independent professional appraisal reports	For operating purpose	None

TABLE 6

ASE TECHNOLOGY HOLDING CO., LTD. AND INVESTEEES

**TOTAL PURCHASES FROM OR SALES TO RELATED PARTIES OF AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL
FOR THE YEAR ENDED DECEMBER 31, 2019
(Amounts In Thousands of New Taiwan Dollars)**

Buyer	Related Party	Relationships	Transaction Details				Abnormal Transaction		Notes/Accounts Payable or Receivable		Note
			Purchases/ Sales	Amount	% to Total	Payment Terms	Unit Price	Payment Terms	Ending Balance	% to Total	
ASE	ASE (Shanghai) Inc.	Subsidiary	Purchases	\$ 1,292,534	3	Net 60 days from the end of the month of when invoice is issued	\$ -	-	\$ (351,375)	(3)	Note
	ASE Electronics Inc.	Subsidiary	Purchases	1,546,869	4	Net 60 days from the end of the month of when invoice is issued	-	-	(342,033)	(3)	Note
	Universal Scientific Industrial Co., Ltd.	Consolidated subsidiary	Sales	(5,042,854)	(5)	Net 60 days from the end of the month of when invoice is issued	-	-	2,598,839	12	Note
ASE Assembly & Test (Shanghai) Limited	Advanced Semiconductor Engineering (HK) Limited	Consolidated subsidiary	Purchases	233,800	12	Net 45 days from invoice date	-	-	(923)	-	Note
Advanced Semiconductor Engineering (HK) Limited	ASE (Shanghai) Inc.	Parent company	Purchases	1,467,423	100	Net 90 days from the end of the month of when invoice is issued	-	-	(226,552)	(100)	Note
	ASE Assembly & Test (Shanghai) Limited	Consolidated subsidiary	Sales	(233,800)	(15)	Net 45 days from invoice date	-	-	923	-	Note
ASE Electronics (M) Sdn. Bhd.	ASE Electronics Inc.	Consolidated subsidiary	Purchases	217,294	13	Net 60 days from invoice date	-	-	(38,928)	(12)	Note
Universal Scientific Industrial Co., Ltd.	ASE	Consolidated subsidiary	Purchases	5,042,854	33	Net 60 days from the end of the month of when invoice is issued	-	-	(2,595,984)	(50)	Note
	Universal Global Scientific Industrial Co., Ltd.	Parent company	Purchases	404,497	3	T/T 75 days	-	-	(107,818)	(2)	Note
ASE (Shanghai) Inc.	ASE	Parent company	Sales	(1,292,534)	(31)	Net 60 days from the end of the month of when invoice is issued	-	-	351,771	37	Note
	Advanced Semiconductor Engineering (HK) Limited	Subsidiary	Sales	(1,467,423)	(35)	Net 90 days from the end of the month of when invoice is issued	-	-	227,459	24	Note
ASE Electronics Inc.	ASE	Parent company	Sales	(1,546,869)	(43)	Net 60 days from the end of the month of when invoice is issued	-	-	366,184	40	Note
	ASE Electronics (M) Sdn. Bhd.	Consolidated subsidiary	Sales	(217,294)	(6)	Net 60 days from invoice date	-	-	39,228	4	Note
	Universal Scientific Industrial (Shanghai) Co., Ltd.	Consolidated subsidiary	Sales	(183,355)	(5)	Net 60 days from the end of the month of when invoice is issued	-	-	17,746	2	Note
	SPIL	Consolidated subsidiary	Sales	(149,626)	(4)	Net 60 days from the end of the month of when invoice is issued	-	-	35,176	4	Note

(Continued)

Buyer	Related Party	Relationships	Transaction Details				Abnormal Transaction		Notes/Accounts Payable or Receivable		Note
			Purchases/ Sales	Amount	% to Total	Payment Terms	Unit Price	Payment Terms	Ending Balance	% to Total	
Universal Global Scientific Industrial Co., Ltd.	Universal Global Industrial Co., Limited	Consolidated subsidiary	Purchases	\$ 22,144,667	76	T/T 75 days	\$ -	-	\$ (4,607,682)	(61)	Note
		Consolidated subsidiary	Sales	(134,708)	-	T/T 75 days	-	-	28,073	-	Note
	Universal Scientific Industrial Co., Ltd.	Subsidiary	Sales	(404,497)	(1)	T/T 75 days	-	-	107,818	1	Note
	USI Electronics (Shenzhen) Co., Ltd.	Consolidated subsidiary	Sales	(247,748)	(1)	T/T 75 days	-	-	-	-	Note
	Universal Scientific Industrial (Shanghai) Co., Ltd.	Parent company	Sales	(247,775)	(1)	T/T 75 days	-	-	-	-	Note
USI Electronics (Shenzhen) Co., Ltd.	Universal Global Industrial Co., Limited	Consolidated subsidiary	Purchases	2,080,259	13	T/T 75 days	-	-	(164,727)	(4)	Note
			Sales	(10,442,913)	(52)	T/T 75 days	-	-	1,896,796	43	Note
	Universal Global Scientific Industrial Co., Ltd.	Consolidated subsidiary	Purchases	247,748	2	T/T 75 days	-	-	-	-	Note
	Universal Scientific Industrial De Mexico S.A. De C.V.	Consolidated subsidiary	Sales	(602,538)	(3)	T/T 75 days	-	-	119,840	3	Note
	Universal Global Technology (Shanghai) Co., Ltd.	Consolidated subsidiary	Purchases	130,657	1	T/T 75 days	-	-	-	-	Note
Universal Global Industrial Co., Limited	USI Electronics (Shenzhen) Co., Ltd.	Consolidated subsidiary	Purchases	10,442,913	38	T/T 75 days	-	-	(1,895,470)	(33)	Note
			Sales	(2,080,259)	(8)	T/T 75 days	-	-	164,727	3	Note
	Universal Global Technology (Kunshan) Co., Ltd.	Consolidated subsidiary	Purchases	14,025,436	51	T/T 75 days	-	-	(2,961,344)	(51)	Note
	Universal Scientific Industrial (Shanghai) Co., Ltd.	Parent company	Purchases	754,166	3	T/T 75 days	-	-	(92,526)	(2)	Note
			Sales	(112,926)	-	T/T 75 days	-	-	4,057	-	Note
	Universal Global Scientific Industrial Co., Ltd.	Consolidated subsidiary	Purchases	134,708	-	T/T 75 days	-	-	(28,073)	-	Note
			Sales	(22,144,667)	(81)	T/T 75 days	-	-	4,607,660	78	Note
Universal Scientific Industrial De Mexico S.A. De C.V.	USI Electronics (Shenzhen) Co., Ltd.	Consolidated subsidiary	Purchases	602,538	8	T/T 75 days	-	-	(119,840)	(12)	Note
Universal Global Technology (Kunshan) Co., Ltd.	Universal Global Technology Co., Limited	Consolidated subsidiary	Purchases	2,797,122	18	T/T 75 days	-	-	(923,973)	(20)	Note
	Universal Global Industrial Co., Limited	Consolidated subsidiary	Sales	(14,025,436)	(70)	T/T 75 days	-	-	2,970,483	69	Note
Universal Scientific Industrial (Shanghai) Co., Ltd.	Universal Global Scientific Industrial Co., Ltd.	Subsidiary	Purchases	247,775	1	T/T 75 days	-	-	-	-	Note
	Universal Global Technology Co., Limited	Subsidiary	Purchases	4,044,776	9	T/T 75 days	-	-	(1,779,439)	(19)	Note
	Universal Global Technology (Shanghai) Co., Ltd.	Subsidiary	Purchases	361,911	1	T/T 75 days	-	-	(152)	-	Note
	ASE Electronics Inc.	Consolidated subsidiary	Purchases	183,355	-	Net 60 days from the end of the month of when invoice is issued	-	-	(17,722)	-	Note
	Universal Global Industrial Co., Limited	Subsidiary	Purchases	112,926	-	T/T 75 days	-	-	(4,057)	-	Note
			Sales	(754,166)	(2)	T/T 75 days	-	-	92,526	1	Note

(Continued)

Buyer	Related Party	Relationships	Transaction Details				Abnormal Transaction		Notes/Accounts Payable or Receivable		Note
			Purchases/ Sales	Amount	% to Total	Payment Terms	Unit Price	Payment Terms	Ending Balance	% to Total	
Universal Global Technology Co., Limited	Universal Global Technology (Kunshan) Co., Ltd.	Consolidated subsidiary	Sales	\$ (2,797,122)	(41)	T/T 75 days	\$ -	-	\$ 923,973	34	Note
	Universal Scientific Industrial (Shanghai) Co., Ltd.	Parent company	Sales	(4,044,776)	(59)	T/T 75 days	-	-	1,779,439	66	Note
	Universal Global Technology (Shanghai) Co., Ltd.	Consolidated subsidiary	Purchases	1,376,134	20	T/T 75 days	-	-	(926,463)	(29)	Note
	USI America Inc.	Subsidiary	Purchases	135,780	2	T/T 75 days	-	-	-	-	Note
Universal Global Technology (Shanghai) Co., Ltd.	Universal Scientific Industrial (Shanghai) Co., Ltd.	Parent company	Sales	(361,911)	(1)	T/T 75 days	-	-	427	-	Note
	Universal Global Technology Co., Limited	Consolidated subsidiary	Sales	(1,376,134)	(3)	T/T 75 days	-	-	926,463	15	Note
	USI Electronics (Shenzhen) Co., Ltd.	Consolidated subsidiary	Sales	(130,657)	-	T/T 75 days	-	-	-	-	Note
USI America Inc.	Universal Global Technology Co., Limited	Parent company	Sales	(135,780)	(100)	T/T 75 days	-	-	8,542	100	Note
SPIL	ASE Electronics Inc.	Consolidated subsidiary	Purchases	149,626	-	Net 60 days from the end of the month of when invoice is issued	-	-	(34,214)	-	Note

(Concluded)

Note: All the transactions had been eliminated when preparing consolidated financial statements.

TABLE 7

ASE TECHNOLOGY HOLDING CO., LTD. AND INVESTEEES

RECEIVABLES FROM RELATED PARTIES AMOUNTING TO AT LEAST NT\$100 MILLION OR 20% OF THE PAID-IN CAPITAL

DECEMBER 31, 2019

(Amounts In Thousands of New Taiwan Dollars, Unless Specified Otherwise)

Company Name	Related Party	Relationships	Ending Balance (Note 1)	Turnover Rate (Note 2)	Overdue (Note 1)		Amounts Received in Subsequent Period	Allowance for Bad Debts
					Amount	Actions Taken		
ASE	Universal Scientific Industrial Co., Ltd. The Company	Consolidated subsidiary	\$ 2,598,839 (Note 5)	3	\$ 95,237	Continued collection	\$ 729,218	\$ -
		The ultimate parent of the company	26,500,211 (Notes 3,5)	-	55	Continued collection	-	-
ASE Electronics Inc.	ASE The Company	Parent company	367,546 (Note 5)	4	-	-	82,174	-
		The ultimate parent of the company	1,000,000 (Notes 3,5)	-	-	-	50,000	-
ASE Singapore Pte. Ltd.	ASE ASE Test, Inc. ASE Test Limited	Parent company	901,981 (Notes 3,5)	3	87	Continued collection	1,761	-
		Consolidated subsidiary	322,572 (Notes 3,5)	-	9,348	Continued collection	-	-
		Parent company	449,864 (Notes 3,5)	-	-	-	449,864	-
ISE Labs, Inc.	ASE ASE Test Limited	Parent company	905,329 (Notes 3,5)	11	-	-	-	-
		Parent company	599,784 (Notes 3,5)	-	-	-	-	-
ASE Test, Inc.	ASE The Company USI Enterprise Limited	Parent company	2,925,801 (Notes 4,5)	-	3,493	Continued collection	989,950	-
		The ultimate parent of the company	4,980,000 (Notes 3,5)	-	-	-	1,000,000	-
		Consolidated subsidiary	500,717 (Notes 3,5)	-	-	-	-	-
ASE Test Limited	ASE	Parent company	6,038,340 (Notes 3,5)	-	-	-	449,700	-
ASE (Korea) Inc.	ASE	Parent company	3,447,700 (Notes 3,5)	-	-	-	1,199,200	-
J&R Industrial Inc.	The Company	The ultimate parent of the company	400,000 (Notes 3,5)	-	-	-	-	-
ASE Japan Co., Ltd.	ASE ASE Test Limited	Parent company	828,000 (Notes 3,5)	-	-	-	-	-
		Consolidated subsidiary	552,032 (Notes 3,5)	-	-	-	-	-
ASE Electronics (M) Sdn. Bhd.	ASE	Parent company	337,052 (Notes 3,5)	-	6,916	Continued collection	439	-
ASE (Shanghai) Inc.	ASE Advanced Semiconductor Engineering (HK) Limited	Parent company	351,771 (Note 5)	3	-	-	15,949	-
		Subsidiary	227,459 (Note 5)	5	-	-	-	-
ASE (Kun Shan) Inc.	ASE Assembly & Test (Shanghai) Limited ASE (Shanghai) Inc.	Parent company	645,046 (Notes 3,5)	-	25,943	Continued collection	-	-
		Consolidated subsidiary	433,023 (Notes 3,5)	-	433,023	Continued collection	-	-
Advanced Semiconductor Engineering (China) Ltd.	ASE Assembly & Test (Shanghai) Limited Suzhou ASEN Semiconductors Co.,LTD	Consolidated subsidiary	906,420 (Notes 3,5)	-	-	-	-	-
		Consolidated subsidiary	329,895 (Notes 3,5)	-	-	-	-	-
ASE (Weihai) Inc.	ASE Assembly & Test (Shanghai) Limited	Consolidated subsidiary	429,838 (Notes 3,5)	-	-	-	-	-
Shanghai Ding Hui Real Estate Development Co., Ltd.	Shanghai Ding Wei Real Estate Development Co., Ltd.	Subsidiary	1,943,522 (Notes 3,5)	-	-	-	-	-
	Kun Shan Ding Hong Real Estate Development Co., Ltd.	Subsidiary	350,489 (Notes 3,5)	-	-	-	-	-
	Shanghai Ding Yu Real Estate Development Co., Ltd.	Subsidiary	217,481 (Notes 3,5)	-	-	-	924	-

(Continued)

Company Name	Related Party	Relationships	Ending Balance (Note 1)	Turnover Rate (Note 2)	Overdue (Note 1)		Amounts Received in Subsequent Period	Allowance for Bad Debts
					Amount	Actions Taken		
Huntington Holdings International Co. Ltd.	ASE	Consolidated subsidiary	\$ 449,700 (Notes 3,5)	-	\$ -	-	\$ -	\$ -
Real Tech Holdings Limited	ASE	Consolidated subsidiary	1,648,900 (Notes 3,5)	-	-	-	-	-
USI Enterprise Limited	ASE	Consolidated subsidiary	7,944,700 (Notes 3,5)	-	-	-	-	-
	USI Inc.	Parent company	1,803,994 (Notes 3,5)	-	-	-	-	-
Universal Scientific Industrial Co., Ltd	Universal Scientific Industrial De Mexico S.A. De C.V.	Consolidated subsidiary	419,720 (Notes 3,5)	-	-	-	-	-
Universal Global Scientific Industrial Co., Ltd.	Universal Scientific Industrial Co., Ltd.	Subsidiary	108,208 (Note 5)	3	-	-	35,318	-
	Universal Scientific Industrial De Mexico S.A. De C.V.	Consolidated subsidiary	543,514 (Notes 3,5)	-	-	-	2,466	-
USI Electronics (Shenzhen) Co., Ltd.	Universal Global Industrial Co., Limited	Consolidated subsidiary	1,896,988 (Note 5)	4	-	-	705,105	-
	Universal Scientific Industrial De Mexico S.A. De C.V.	Consolidated subsidiary	119,840 (Note 5)	5	7,321	Continued collection	76,275	-
	Universal Global Technology (Shanghai) Co., Ltd.	Consolidated subsidiary	1,517,421 (Notes 3,5)	-	-	-	-	-
Universal Global Industrial Co., Limited	Universal Global Scientific Industrial Co., Ltd.	Consolidated subsidiary	4,621,868 (Note 5)	4	225,655	Continued collection	1,777	-
	USI Electronics (Shenzhen) Co., Ltd.	Consolidated subsidiary	164,820 (Note 5)	5	-	-	9	-
Universal Global Technology Co., Limited	Universal Scientific Industrial De Mexico S.A. De C.V.	Subsidiary	1,049,300 (Note 5)	-	-	-	-	-
	Universal Global Technology (Kunshan) Co., Ltd.	Consolidated subsidiary	924,363 (Note 5)	3	511,372	Continued collection	230,334	-
	Universal Scientific Industrial (Shanghai) Co., Ltd.	Parent company	1,780,609 (Note 5)	3	421,677	Continued collection	369,904	-
	Chung Hong Electronics Poland Sp. z o.o.	Consolidated subsidiary	359,760 (Note 3, 5)	-	-	-	-	-
Universal Global Technology (Kunshan) Co., Ltd.	Universal Global Industrial Co., Limited	Consolidated subsidiary	2,970,874 (Note 5)	5	-	-	997,388	-
Universal Global Technology (Shanghai) Co., Ltd.	Universal Global Technology Co., Limited	Consolidated subsidiary	926,463 (Notes 3,5)	3	-	-	396,237	-
Universal Scientific Industrial (Shanghai) Co., Ltd.	Universal Global Technology (Shanghai) Co., Ltd.	Subsidiary	481,399 (Notes 3,5)	-	-	-	-	-
USI Inc.	Universal Global Scientific Industrial Co., Ltd.	Subsidiary	266,335 (Note 5)	-	-	-	39,629	-
SPIL	Siliconware Technology (Suzhou) Limited	Subsidiary	3,195,394 (Notes 3,5)	2	873,956	Continued collection	867,735	-
	Siliconware Electronics (Fujian) Co., Limited	Subsidiary	626,571 (Notes 3,5)	11	13,555	Continued collection	1,956	-

(Concluded)

Note 1: Include trade receivables and other receivables.

Note 2: Exclude other receivables.

Note 3: Intercompany Loan and purchase of machinery and equipment on behalf of subsidiary, please refer to Table 1.

Note 4: Turnkey transaction.

Note 5: All the transactions had been eliminated when preparing consolidated financial statements.

TABLE 8

ASE TECHNOLOGY HOLDING CO., LTD. AND INVESTEEES

**NAMES, LOCATION, AND RELATED INFORMATION OF INVESTEEES OVER WHICH THE COMPANY EXERCISES SIGNIFICANT INFLUENCE
FOR THE YEAR ENDED DECEMBER 31, 2019
(Amounts In Thousands of New Taiwan Dollars, Unless Specified Otherwise)**

Investor Company	Investee Company	Location	Main Businesses and Products	Original Investment Amount		Balance as of December 31, 2019			Net Income (Losses) of the Investee	Share of Profits/Losses of Investee (Note 1)	Note
				December 31, 2019	December 31, 2018	Shares	Percentage of Ownership	Carrying Value			
The Company	ASE	Taiwan	Engaged in the packaging and testing of semiconductors	\$ 183,660,039	\$ 174,352,839	5,994,143,764	100	\$ 106,730,386	\$ 13,172,997	\$ 12,895,510	Subsidiary
	SPIL	Taiwan	Engaged in assembly, testing and turnkey services of integrated circuits	173,657,530	173,657,530	3,391,748,878	100	155,297,490	7,604,086	1,685,876	Subsidiary
	USI Global Inc.	Taiwan	Investment activities	-	31,080,000	-	-	-	351,819	351,819	Subsidiary
	USI Inc.	Taiwan	Investment activities	33,362,556	-	2,119,854,880	100	31,982,170	4,006,219	3,606,834	Subsidiary
ASE	A.S.E. Holding Limited	Bermuda	Investment activities	US\$ 283,966 thousand	US\$ 283,966 thousand	243,966	100	16,323,952	205,061	(Note 2)	Subsidiary
	J & R Holding Limited	Bermuda	Investment activities	US\$ 479,693 thousand	US\$ 479,693 thousand	435,128	100	59,686,030	1,876,460	(Note 2)	Subsidiary
	ASE Marketing & Service Japan Co., Ltd.	Japan	Engaged in marketing and customer service of packaging and testing of semiconductors	JPY 60,000 thousand	JPY 60,000 thousand	1,200	100	38,015	2,449	(Note 2)	Subsidiary
	Omniquest Industrial Limited	British Virgin Islands	Investment activities	US\$ 254,604 thousand	US\$ 250,504 thousand	254,604,067	71	11,506,471	(29,882)	(Note 2)	Subsidiary
	Innosource Limited	British Virgin Islands	Investment activities	US\$ 86,100 thousand	US\$ 86,000 thousand	86,100,000	100	4,397,653	3,114	(Note 2)	Subsidiary
	HCK	Taiwan	Engaged in the leasing of real estate properties	\$ 390,470	\$ 390,470	35,497,273	27	283,105	(46,383)	(Note 2)	Associate
	HC	Taiwan	Engaged in the development, construction and leasing of real estate properties	2,845,913	2,845,913	68,629,782	26	1,391,044	742,090	(Note 2)	Associate
	ASE Test, Inc.	Taiwan	Engaged in the testing of semiconductors	20,698,867	20,698,867	1,131,452,502	100	30,494,665	3,824,206	(Note 2)	Subsidiary
	Luchu Development Corporation	Taiwan	Engaged in the development of real estate properties	1,366,238	1,366,238	138,013,151	67	1,387,395	(7,184)	(Note 2)	Subsidiary
	ASEEE	Taiwan	Engaged in the production of embedded substrate	-	765,000	-	-	-	(741,700)	(Note 2)	Associate
	ASEEE	Taiwan	Engaged in the production of embedded substrate	2,450,940	-	185,240,500	100	1,224,385	(741,700)	(Note 2)	Subsidiary
	Deca Technologies Inc.	British Cayman Islands	Holding company and the group engaged in manufacturing, development and marketing of wafer level packaging and interconnect technology	US\$ 59,882 thousand	US\$ 59,882 thousand	98,489,803	22	323,423	(551,847)	(Note 2)	Associate
	AMPI	Taiwan	Engaged in integrated circuit	\$ -	\$ 178,861	-	-	-	(306,411)	(Note 2)	Associate
	AMPI	Taiwan	Engaged in integrated circuit	178,861	-	33,308,452	8	80,406	(306,411)	(Note 2)	Subsidiary
ASE Test, Inc.	Alto Enterprises Limited	British Virgin Islands	Investment activities	US\$ 188,000 thousand	US\$ 188,000 thousand	188,000,000	100	4,290,449	(76,416)	(Note 2)	Subsidiary
	Super Zone Holdings Limited	Hong Kong	Investment activities	US\$ 100,000 thousand	US\$ 100,000 thousand	100,000,000	100	3,006,162	53,460	(Note 2)	Subsidiary
	Luchu Development Corporation	Taiwan	Engaged in the development of real estate properties	\$ 372,504	\$ 372,504	38,958,734	19	391,550	(7,184)	(Note 2)	Subsidiary
	TLJ Intertech Inc.	Taiwan	Engaged in information software services	89,998	89,998	2,119,080	60	59,454	15,230	(Note 2)	Subsidiary
	MF	Taiwan	Engaged in information software services	30,000	30,000	3,000,000	100	32,437	2,625	(Note 2)	Subsidiary
	AMPI	Taiwan	Engaged in integrated circuit	-	225,000	-	-	-	(306,411)	(Note 2)	Associate
	AMPI	Taiwan	Engaged in integrated circuit	475,000	-	190,000,000	43	354,609	(306,411)	(Note 2)	Subsidiary
A.S.E. Holding Limited	ASE Test Limited	Singapore	Investment activities	US\$ 84,889 thousand	US\$ 84,889 thousand	11,148,000	10	US\$ 101,289 thousand	US\$ 43,093 thousand	(Note 2)	Subsidiary
	ASE Investment (Labuan) Inc.	Malaysia	Investment activities	US\$ 169,643 thousand	US\$ 168,643 thousand	169,642,842	70	US\$ 386,132 thousand	US\$ 2,800 thousand	(Note 2)	Subsidiary
J & R Holding Limited	ASE Test Limited	Singapore	Investment activities	US\$ 964,524 thousand	US\$ 964,524 thousand	98,276,087	90	US\$ 1,008,743 thousand	US\$ 43,093 thousand	(Note 2)	Subsidiary
	Omniquest Industrial Limited	British Virgin Islands	Investment activities	US\$ 30,200 thousand	US\$ 30,200 thousand	30,200,000	8	US\$ 45,910 thousand	(US\$ 954 thousand)	(Note 2)	Subsidiary
	J&R Industrial Inc.	Taiwan	Engaged in leasing equipment	US\$ 51,344 thousand	US\$ 51,344 thousand	170,000,006	100	US\$ 33,758 thousand	US\$ 136 thousand	(Note 2)	Subsidiary
	ASE Japan Co., Ltd.	Japan	Engaged in the packaging and testing of semiconductors	US\$ 25,606 thousand	US\$ 25,606 thousand	7,200	100	US\$ 73,684 thousand	(US\$ 5,507 thousand)	(Note 2)	Subsidiary
	ASE (U.S.) Inc.	U.S.A	After-sales service and sales support	US\$ 4,600 thousand	US\$ 4,600 thousand	1,000	100	US\$ 17,424 thousand	US\$ 1,821 thousand	(Note 2)	Subsidiary
	Global Advanced Packaging Technology Limited	British Cayman Islands	Investment activities	US\$ 207,370 thousand	US\$ 190,000 thousand	207,370,000	100	US\$ 520,346 thousand	US\$ 15,375 thousand	(Note 2)	Subsidiary
	Anstock Limited	British Cayman Islands	Investment activities	US\$ 10 thousand	US\$ 10 thousand	10,000	100	US\$ 1,132 thousand	US\$ 54 thousand	(Note 2)	Subsidiary
	Anstock II Limited	British Cayman Islands	Investment activities	US\$ 10 thousand	US\$ 10 thousand	10,000	100	US\$ 173 thousand	(US\$ 2 thousand)	(Note 2)	Subsidiary
ASE Investment (Labuan) Inc.	ASE (Korea) Inc.	Korea	Engaged in the manufacturing of substrates and components of telecomm	US\$ 160,000 thousand	US\$ 160,000 thousand	20,741,363	100	US\$ 549,774 thousand	US\$ 2,567 thousand	(Note 2)	Subsidiary
ASE Test Limited	ASE Holdings (Singapore) Pte Ltd	Singapore	Investment activities	US\$ 65,520 thousand	US\$ 65,520 thousand	71,428,902	100	US\$ 186,956 thousand	US\$ 10,658 thousand	(Note 2)	Subsidiary
	ASE Test Holdings, Ltd.	British Cayman Islands	Investment activities	US\$ 222,399 thousand	US\$ 222,399 thousand	5	100	US\$ 104,170 thousand	US\$ 97 thousand	(Note 2)	Subsidiary
	ASE Investment (Labuan) Inc.	Malaysia	Investment activities	US\$ 72,304 thousand	US\$ 72,304 thousand	72,304,040	30	US\$ 164,541 thousand	US\$ 2,800 thousand	(Note 2)	Subsidiary
	ASE Singapore Pte. Ltd.	Singapore	Engaged in the testing of semiconductors	US\$ 55,815 thousand	US\$ 55,815 thousand	30,100,000	100	US\$ 176,544 thousand	US\$ 17,764 thousand	(Note 2)	Subsidiary

(Continued)

Investor Company	Investee Company	Location	Main Businesses and Products	Original Investment Amount		Balance as of December 31, 2019			Net Income (Losses) of the Investee	Share of Profits/Losses of Investee (Note 1)	Note
				December 31, 2019	December 31, 2018	Shares	Percentage of Ownership	Carrying Value			
ASE Test Holdings, Ltd.	ISE Labs, Inc.	U.S.A	Engaged in the testing of semiconductors	US\$ 221,145 thousand	US\$ 221,145 thousand	26,250,000	100	US\$ 104,169 thousand	US\$ 97 thousand	(Note 2)	Subsidiary
ASE Holdings (Singapore) Pte Ltd. Omniquest Industrial Limited	ASE Electronics (M) Sdn. Bhd. ASE Corporation	Malaysia	Engaged in the packaging and testing of integrated circuits	US\$ 60,000 thousand	US\$ 60,000 thousand	159,715,000	100	US\$ 186,956 thousand	US\$ 10,658 thousand	(Note 2)	Subsidiary
		British Cayman Islands	Investment activities	US\$ 356,284 thousand	US\$ 352,784 thousand	356,284,067	100	US\$ 544,897 thousand	(US\$ 940 thousand)	(Note 2)	Subsidiary
ASE Corporation	ASE Mauritius Inc. ASE Labuan Inc.	Mauritius	Investment activities	US\$ 217,800 thousand	US\$ 217,800 thousand	217,800,000	100	US\$ 425,804 thousand	US\$ 2,241 thousand	(Note 2)	Subsidiary
		Malaysia	Investment activities	US\$ 126,184 thousand	US\$ 126,184 thousand	126,184,067	100	US\$ 115,603 thousand	(US\$ 3,147 thousand)	(Note 2)	Subsidiary
ASE Labuan Inc.	ASE Electronics Inc.	Taiwan	Engaged in the production of substrates	US\$ 125,813 thousand	US\$ 125,813 thousand	398,981,900	100	US\$ 115,042 thousand	(US\$ 3,145 thousand)	(Note 2)	Subsidiary
Innosource Limited	Omniquest Industrial Limited	British Virgin Islands	Investment activities	US\$ 74,000 thousand	US\$ 74,000 thousand	74,000,000	21	US\$ 112,429 thousand	(US\$ 954 thousand)	(Note 2)	Subsidiary
ASE (Shanghai) Inc.	Advanced Semiconductor Engineering (HK) Limited	Hong Kong	Engaged in the trading of substrates	US\$ 1,000 thousand	US\$ 1,000 thousand	-	100	US\$ 9,473 thousand	US\$ 85 thousand	(Note 2)	Subsidiary
USI Global Inc.	USI Inc.	Taiwan	Investment activities	\$ -	\$ 32,912,748	-	-	\$ -	\$ 4,006,219	(Note 2)	Subsidiary
USI Inc.	Huntington Holdings International Co. Ltd.	British Virgin Islands	Holding company	8,370,606	8,370,606	255,856,840	100	47,711,268	4,224,347	(Note 2)	Subsidiary
Huntington Holdings International Co. Ltd.	Unitech Holdings International Co. Ltd.	British Virgin Islands	Holding company	US\$ 3,000 thousand	US\$ 3,000 thousand	3,000,000	100	US\$ 8,232 thousand	(US\$ 211 thousand)	(Note 2)	Subsidiary
	Real Tech Holdings Limited	British Virgin Islands	Holding company	US\$ 149,151 thousand	US\$ 149,151 thousand	149,151,000	100	US\$ 1,565,862 thousand	US\$ 145,530 thousand	(Note 2)	Subsidiary
	Universal ABIT Holding Co., Ltd.	British Cayman Islands	Holding company	US\$ 28,125 thousand	US\$ 28,125 thousand	90,000,000	100	US\$ 13 thousand	US\$ - thousand	(Note 2)	Subsidiary
	Rising Capital Investment Limited	British Virgin Islands	Holding company	US\$ -	US\$ 6,000 thousand	-	-	US\$ - thousand	US\$ 1 thousand	(Note 2)	Subsidiary
	Rise Accord Limited	British Virgin Islands	Holding company	US\$ -	US\$ 2,000 thousand	-	-	US\$ - thousand	(US\$ 5 thousand)	(Note 2)	Subsidiary
Real Tech Holdings Limited	USI Enterprise Limited	Hong Kong	Engaged in the services of investment advisory and warehousing management	US\$ 210,900 thousand	US\$ 210,900 thousand	210,900,000	96	US\$ 1,492,414 thousand	US\$ 149,389 thousand	(Note 2)	Subsidiary
Universal Scientific Industrial (Shanghai) Co., Ltd.	Universal Global Technology Co., Limited	Hong Kong	Holding company	CNY 1,149,624 thousand	CNY 1,149,624 thousand	1,330,965,535	100	CNY 3,601,072 thousand	CNY 282,420 thousand	(Note 2)	Subsidiary
Universal Global Technology Co., Limited	Universal Global Industrial Co., Limited Universal Global Electronics Co., Ltd.	Hong Kong	Engaged in trading and investing activity	US\$ 11,000 thousand	US\$ 11,000 thousand	85,800,000	100	US\$ 12,822 thousand	US\$ 869 thousand	(Note 2)	Subsidiary
		Hong Kong	Engaging in ordering and outsourcing, selling electronic products, and providing technical consulting services	US\$ 27,000 thousand	US\$ 9,000 thousand	27,000,000	100	US\$ 25,526 thousand	(US\$ 1,175 thousand)	(Note 2)	Subsidiary
	M-Universe Investments Pte. Ltd.	Singapore	Holding company	US\$ - thousand	US\$ - thousand	-	-	US\$ - thousand	US\$ 6,768 thousand	(Note 2)	Subsidiary
	M-Universe Investments Pte. Ltd.	Singapore	Holding company	US\$ 58,688 thousand	US\$ - thousand	59,157,419	42	US\$ 60,530 thousand	US\$ 6,768 thousand	(Note 2)	Associate
	Universal Global Scientific Industrial Co., Ltd.	Taiwan	Engaged in the manufacturing of components of telecomm and cars and provision of related R&D services	US\$ 62,235 thousand	US\$ 62,235 thousand	198,000,000	100	US\$ 212,661 thousand	US\$ 15,968 thousand	(Note 2)	Subsidiary
	USI Japan Co., Ltd.	Japan	Engaged in the manufacturing and sale of computer peripherals, integrated chip and other related accessories	US\$ 885 thousand	US\$ 885 thousand	6,400	100	US\$ 1,050 thousand	US\$ 73 thousand	(Note 2)	Subsidiary
	Universal Scientific Industrial De Mexico S.A. De C.V.	Mexico	Engaged in the assembling of motherboards and computer components	US\$ 23,963 thousand	US\$ 23,963 thousand	281,085,325	100	US\$ 39,189 thousand	(US\$ 6,593 thousand)	(Note 2)	Subsidiary
	USI America Inc.	U.S.A	Engaged in the manufacturing and processing of motherboards and wireless network communication and provision of related technical service	US\$ 9,500 thousand	US\$ 9,500 thousand	250,000	100	US\$ 6,478 thousand	US\$ 133 thousand	(Note 2)	Subsidiary
	Universal Scientific Industrial (France)	France	Holding company	US\$ 11 thousand	US\$ - thousand	10,000	100	US\$ 10 thousand	(US\$ 1 thousand)	(Note 2)	Subsidiary
	Universal Scientific Industrial De Mexico S.A. De C.V.	Mexico	Engaged in the assembling of motherboards and computer components	US\$ - thousand	US\$ - thousand	1	-	US\$ - thousand	(US\$ 6,593 thousand)	(Note 2)	Subsidiary
Universal Global Scientific Industrial Co., Ltd.	Universal Scientific Industrial Co., Ltd.	Taiwan	Engaged in the manufacturing, processing and sale of computers, computer peripherals	\$ 1,791,208	\$ 1,791,208	139,972,740	100	\$ 2,745,270	\$ 229,407	(Note 2)	Subsidiary
Universal Global Electronics Co., Ltd.	Semicondutores Avancados do Brasil S.A.	Brazil	Developed and manufactured system-in-package module products with all-in-one functions for smart phones, Internet of Things and other related devices.	US\$ 250 thousand	US\$ - thousand	746,137	75	US\$ 71 thousand	(US\$ 153 thousand)	(Note 2)	Subsidiary
	Chung Hong Electronics Poland Sp. z o.o.	Poland	Engaged in the design, manufacturing and processing of electronic products	US\$ 886 thousand	US\$ - thousand	40,612	60	US\$ 4,752 thousand	(US\$ 222 thousand)	(Note 2)	Subsidiary
SPIL	SPIL (B.V.I.) Holding Limited	British Virgin Islands	Investment activities	US\$ 289,400 thousand	US\$ 179,400 thousand	289,400,000	100	\$ 14,098,034	\$ (547,778)	(Note 2)	Subsidiary
	Siliconware Investment Co., Ltd.	Taiwan	Investment activities	\$ 2,401,000	\$ 2,401,000	75,390,600	100	4,067,727	52,976	(Note 2)	Subsidiary
	ChipMOS Technologies Inc.	Taiwan	Engaged in the packaging and testing of semiconductors	2,240,230	2,418,928	148,910,390	20	4,383,903	(Note 3)	(Note 2)	Associate
	Vertical Circuits, Inc.	U.S.A	Engaged in the packaging of semiconductors	US\$ 5,000 thousand	US\$ 5,000 thousand	15,710,000	31	-	-	(Note 2)	Associate
Siliconware Investment Co., Ltd.	Yann Yuan Investment Co., Ltd.	Taiwan	Investment activities	\$ 2,328,000	\$ 2,400,000	48,000,000	32	3,995,862	166,098	(Note 2)	Associate

(Continued)

Investor Company	Investee Company	Location	Main Businesses and Products	Original Investment Amount		Balance as of December 31, 2019			Net Income (Losses) of the Investee	Share of Profits/Losses of Investee (Note 1)	Note
				December 31, 2019	December 31, 2018	Shares	Percentage of Ownership	Carrying Value			
SPIL (B.V.I.) Holding Limited	Siliconware USA, Inc.	U.S.A	Communications and relationship maintenance with companies headquartered in North America	US\$ 1,250 thousand	US\$ 1,250 thousand	1,250,000	100	\$ 251,386	\$ 18,412	(Note 2)	Subsidiary
	SPIL (Cayman) Holding Limited	British Cayman Islands	Investment activities	US\$ 291,200 thousand	US\$ 181,200 thousand	291,200,000	100	13,914,290	(566,130)	(Note 2)	Subsidiary

(Concluded)

Note 1: The share of profits/losses of investee includes the effect of unrealized gross profit on intercompany transaction.

Note 2: The share of profits/losses of investee company is not reflected herein as such amount is already included in the share of profits/losses of the investor company.

Note 3: Please refer to the Market Observation Post System website.

ASE TECHNOLOGY HOLDING CO., LTD AND INVESTEEES

INFORMATION ON INVESTMENT IN MAINLAND CHINA
FOR THE YEAR ENDED DECEMBER 31, 2019
(Amounts In Thousands of New Taiwan Dollars, Unless Specified Otherwise)

Investee Company	Main Business Activities	Paid-in Capital	Investment Method	Accumulated amount of remittance from Taiwan to Mainland China as of January 1, 2019	Amount remitted from Taiwan to Mainland China/Amount remitted back to Taiwan for the period ended December 31, 2019		Accumulated amount of remittance from Taiwan to Mainland China as of December 31, 2019	Net income of investee for the period ended December 31, 2019	Ownership held by the Company (direct or indirect)	Investment income (loss) recognised by the Company for the period ended December 31, 2019	Book value of investments in Mainland China as of December 31, 2019	Accumulated amount of investment income remitted back to Taiwan as of December 31, 2019
					Remitted to Mainland China	Remitted back to Taiwan						
ASE (Shanghai) Inc.	Engaged in the production of substrates	\$ 4,349,312 (US\$ 148,496 thousand) (Note 8)	Note 1 (1)	\$ 4,782,216 (US\$ 149,800 thousand) (Note 8)	\$ -	\$ -	\$ 4,782,216 (US\$ 149,800 thousand)	\$ 111,002 (US\$ 3,607thousand) (Note 4)	100	\$ 111,002) (US\$ 3,607thousand) (Note 4)	\$ 11,903,333 (US\$ 397,042 thousand)	None
ASE (Kun Shan) Inc.	Engaged in the packaging and testing ofsemiconductors	8,945,404 (US\$ 288,000 thousand) (Note 10)	Note 1 (2)	8,350,204 (US\$ 268,000 thousand) (Note 9)	-	-	8,350,204 (US\$ 268,000 thousand)	(116,943) (US\$ -3,778 thousand) (Note 3)	100	(116,943) (US\$ -3,778 thousand) (Note 3)	6,574,973 (US\$ 219,312 thousand)	None
ASE Assembly & Test (Shanghai) Limited	Engaged in the packaging and testing ofsemiconductors	6,501,336 (US\$ 203,580 thousand)	Note 1 (3)	5,792,530 (US\$ 180,000 thousand)	-	-	5,792,530 (US\$ 180,000 thousand)	481,425 (US\$ 15,620 thousand) (Note 3)	100	481,425 (US\$ 15,620 thousand) (Note 3)	15,217,630 (US\$ 507,593 thousand)	None
Suzhou ASEN Semiconductors Co., Ltd.	Engaged in the packaging and testing ofsemiconductors	1,568,467 (US\$ 48,672 thousand) (Note 8)	Note 1 (4)	711,180 (US\$ 21,600 thousand)	-	-	711,180 (US\$ 21,600 thousand)	704,323 (US\$ 22,815 thousand) (Note 4)	100	544,676 (US\$ 17,669 thousand) (Note 4)	6,200,661 (US\$ 206,827 thousand)	None
ASE WeiHai Inc.	Engaged in the packaging and testing ofsemiconductors	5,115,481 (US\$ 172,200 thousand)	Note 1 (5)	1,295,307 (US\$ 40,000 thousand)	-	-	1,295,307 (US\$ 40,000 thousand)	292,610 (US\$ 9,464 thousand) (Note 4)	100	292,610 (US\$ 9,464 thousand) (Note 4)	3,406,351 (US\$ 113,621 thousand)	None
Shanghai Ding Hui Real Estate Development Co., Ltd.	Engaged in the development, construction and sale of real estate properties	16,345,070 (CNY 3,600,000 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	(400,262) (CNY -89,473 thousand) (Note 4)	100	(401,298) (CNY -89,704 thousand) (Note 4)	20,545,482 (CNY 4,780,834 thousand)	None
Shanghai Ding Wei Real Estate Development Co., Ltd.	Engaged in the development, construction and sale of real estate properties	8,061,489 (CNY 1,798,000 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	(388,409) (CNY -86,452 thousand) (Note 4)	100	(388,409) (CNY -86,452 thousand) (Note 4)	6,463,434 (CNY 1,504,010 thousand)	None
Shanghai Ding Yu Real Estate Development Co., Ltd.	Engaged in the development, construction and sale of real estate properties	4,936,538 (CNY 1,100,000 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	(37,842) (CNY -8,513 thousand) (Note 4)	100	(37,842) (CNY -8,513 thousand) (Note 4)	4,641,411 (CNY 1,080,034 thousand)	None
Kun Shan Ding Hong Real Estate Development Co., Ltd.	Engaged in the development, construction and sale of real estate properties	3,139,662 (CNY 670,000 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	(8,251) (CNY -1,839 thousand) (Note 4)	100	(8,251) (CNY -1,839 thousand) (Note 4)	2,965,391 (CNY 690,032 thousand)	None
Advanced Semiconductor Engineering (China) Ltd.	Engage in the packaging and testing ofsemiconductors	3,149,000 (US\$ 100,000 thousand)	Note 1 (6)	3,149,000 (US\$ 100,000 thousand)	-	-	3,149,000 (US\$ 100,000 thousand)	53,460 (US\$ 1,700 thousand) (Note 3)	100	53,460 (US\$ 1,700 thousand) (Note 3)	3,006,047 (US\$ 100,268 thousand)	None
ASE Investment (Kun Shan) Limited	Holding company	4,312,518 (US\$ 142,000 thousand) (Note 10)	Note 1 (7)	3,717,318 (US\$ 122,000 thousand) (Note 9)	-	-	3,717,318 (US\$ 122,000 thousand)	(57,743) (US\$ -1,865 thousand) (Note 3)	100	(57,743) (US\$ -1,865 thousand) (Note 3)	3,239,602 (US\$ 108,059 thousand)	None
Wuxi Tongzhi Microelectronics Co., Ltd.	Engage in the packaging and testing ofsemiconductors	356,682 (CNY 73,461 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	19,404 (CNY 4,347 thousand) (Note 3)	100	19,404 (CNY 4,347 thousand) (Note 3)	375,059 (CNY 87,274 thousand)	None

(Continued)

Investee Company	Main Business Activities	Paid-in Capital	Investment Method	Accumulated amount of remittance from Taiwan to Mainland China as of January 1, 2019	Amount remitted from Taiwan to Mainland China/Amount remitted back to Taiwan for the period ended September 30, 2019		Accumulated amount of remittance from Taiwan to Mainland China as of September 30, 2019	Net income of investee for the period ended September 30, 2019	Ownership held by the Company (direct or indirect)	Investment income (loss) recognised by the Company for the period ended September 30, 2019	Book value of investments in Mainland China as of September 30, 2019	Accumulated amount of investment income remitted back to Taiwan as of September 30, 2019
					Remitted to Mainland China	Remitted back to Taiwan						
Shanghai Ding Qi Property Management Co., Ltd.	Engaged in the management of real estate properties	\$ 5,078 (CNY 1,000 thousand)	(Note 2)	\$ - (Note 2)	\$ -	\$ -	\$ - (Note 2)	\$ 29,734 (CNY 6,504 thousand) (Note 4)	100	\$ 29,734 (CNY 6,504 thousand) (Note 4)	\$ (5,268) (CNY -1,226 thousand)	None
Shanghai Ding Fan Department Store Co., Ltd.	Engaged in selling General merchandise	9,487 (CNY 2,000 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	(1,320) (CNY -294 thousand) (Note 4)	100	(1,320) (CNY -294 thousand) (Note 4)	5,438 (CNY 1,265 thousand)	None
Shanghai Ding Xu Property Management Co., Ltd.	Engaged in the management of real estate properties	22,860 (CNY 5,000 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	3,776 (CNY 838 thousand) (Note 4)	100	3,776 (CNY 838 thousand) (Note 4)	27,055 (CNY 6,295 thousand)	None
ISE labs, China. Ltd.	Engage in the packaging and testing of semiconductors	222,231 (CNY 50,000 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	(7,509) (CNY -1,640 thousand) (Note 3)	100	(7,509) (CNY -1,640 thousand) (Note 3)	204,159 (CNY 47,507 thousand)	None
USI Electronics (Shenzhen) Co., Ltd	Engaged in the processing and sales of computer and communication peripherals as well as business in import and export of goods and technology	2,270,625 (US\$ 75,000 thousand)	Note 1 (8)	1,180,746	-	-	1,180,746	1,696,306 (CNY 378,733 thousand) (Note 5)	75	1,241,797 (US\$ 40,215 thousand) (Note 5)	10,607,892 (US\$ 353,832 thousand)	\$ 1,842,387 (US\$ 62,297 thousand)
Universal Scientific Industrial (Shanghai) Co., Ltd.	Engaged in the designing, manufacturing and sale of electronic components	10,649,110 (CNY 2,175,924 thousand)	Note 1 (8)	1,668,233	-	-	1,668,233	5,580,983 (US\$ 180,738 thousand) (Note 5)	75	4,244,502 (US\$ 137,457 thousand) (Note 5)	33,301,549 (US\$ 1,110,792 thousand)	349,290 (US\$ 10,955 thousand)
Universal Scientific Industrial (Kunshan) Co., Ltd.	Engaged in the manufacturing and sale of computer assistance system and related peripherals	383,201 (US\$ 12,000 thousand)	Note 1 (8)	383,201	-	-	383,201	7,742 (US\$ 251 thousand) (Note 5)	100	7,742 (US\$ 251 thousand) (Note 5)	362,429 (US\$ 12,089 thousand)	None
Universal Global Technology (Kunshan) Co., Ltd.	Engaged in the designing and manufacturing of electronic components	1,202,223 (CNY 250,000 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	1,115,940 (CNY 249,155 thousand) (Note 5)	75	839,314 (CNY 187,459 thousand) (Note 5)	3,983,537 (CNY 926,950 thousand)	None
Universal Global Technology (Shanghai) Co., Ltd.	Engaged in the processing and sales of computer and communication peripherals as well as business in import and export of goods and technology	6,652,140 (CNY 1,330,000 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	1,245,653 (CNY 278,116 thousand) (Note 5)	75	942,087 (CNY 210,413 thousand) (Note 5)	4,516,890 (CNY 1,051,058 thousand)	None
Universal Global Electronics (Shanghai) Co., Ltd.	Engaged in the sale of electronic components and telecommunications equipment	240,850 (CNY 50,000 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	6,741 (CNY 1,505 thousand) (Note 5)	75	5,121 (CNY 1,144 thousand) (Note 5)	189,164 (CNY 44,017 thousand)	None
SUMA-USI	Engaged in the design and production of electronic products	285,815 (CNY 65,170 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	(774) (CNY -173 thousand)	37	(291) (CNY -65 thousand)	213,143 (CNY 49,597 thousand)	None
Universal Global Technology (Huizhou) Co., Ltd	Engaged in the processing and sales of computer and communication peripherals as well as business in import and export of goods and technology	229,050 (CNY 50,000 thousand)	(Note 2)	- (Note 2)	-	-	- (Note 2)	(3,325) (CNY -742 thousand) (Note 5)	75	(2,526) (CNY -564 thousand) (Note 5)	159,459 (CNY 37,105 thousand)	None
Siliconware Technology (Suzhou) Limited	Engage in the packaging and testing of semiconductors	5,608,532 (US\$ 159,577 thousand)	Note 1 (9)	4,677,513 (US\$ 130,000 thousand)	3,351,150 (US\$ 110,000 thousand)	-	8,028,663 (US\$ 240,000 thousand)	(221,673) (Note 12)	100	(128,777) (Note 12)	10,306,041	None
Siliconware Electronics (Fujiam) Co., Limited	Engage in the packaging and testing of semiconductors	4,136,275 (US\$ 135,000 thousand)	Note 1 (9)	1,358,200 (US\$ 45,000 thousand)	-	-	1,358,200 (US\$ 45,000 thousand)	(490,549) (Note 12)	100	(490,549) (Note 12)	3,430,983	None

(Continued)

Investee Company	Accumulated Investment in Mainland China as of December 31, 2019	Investment Amounts Authorized by Investment Commission, MOEA	Upper Limit on Investment
ASE	\$ 15,203,097 (US\$471,400 thousand)	\$ 26,039,064 (US\$ 823,503 thousand) (Note 8)	\$ - (Note 6)
ASE Test, Inc.	8,878,838 (US\$288,000 thousand)	8,878,838 (US\$ 288,000 thousand)	18,295,601 (Note 7)
USI Inc.	3,232,180	32,402,388 (US\$ 1,027,237thousand)	- (Note 6)
SPIL	9,386,863 (US\$285,000 thousand)	9,710,592 (US\$ 314,577 thousand) (Note 11)	- (Note 6)

Note 1: Investments through a holding company registered in a third region. The holding companies are as follow:

- (1) ASE Mauritius Inc., ASE Corporation, Omniquest Industrial Limited, Innosource Limited and J&R Holding Limited.
- (2) ASE Mauritius Inc., Alto Enterprises Limited, Innosource Limited, ASE Corporation, Omniquest Industrial Limited and J&R Holding Limited.
- (3) Global Advanced Packaging Technology Limited and J&R Holding Limited.
- (4) J&R Holding Limited.
- (5) ASE (Korea) Inc., ASE Test Limited, ASE Investment (Labuan) Inc., A.S.E. Holding Limited and J&R Holding Limited.
- (6) Super Zone Holdings Limited.
- (7) Alto Enterprises Limited.
- (8) Real Tech Holdings Limited and Huntington Holdings International Co. Ltd.
- (9) SPIL (Cayman) Holding Limited.

Note 2: Invested by companies in mainland China.

Note 3: The basis for investment income (loss) recognition is from the financial statements audited and attested by R.O.C. parent company’s CPA.

Note 4: The basis for investment income (loss) recognition is from the financial statements audited and attested by international accounting firm which has cooperative relationship with accounting firm in R.O.C.

Note 5: The basis for investment income (loss) recognition is from the financial statements audited and attested by other CPA in the same accounting firm with R.O.C. parent company’s CPA.

Note 6: Pursuant to the Jing-Shen-Zi Letter No. 09704604680 of the Ministry of Economic Affairs, R.O.C amended 'Guidelines Governing the Review of Investment or Technical Cooperation in the Mainland Area' dated August 29, 2008 and effective August 1 of the same year, as the Company has obtained the certificate of being qualified for operating headquarters, issued by the Industrial Development Bureau, MOEA, and meet the criteria of multinational enterprise, the ceiling amount of the investment in Mainland China is not applicable to the Company.

Note 7: The upper limit on investment of ASE Test, Inc. is calculated as follow: \$30,492,669 × 60% =18,295,601.

Note 8: US\$352,103 thousand difference between MOEA approved investment amount and accumulated outflow of investment from Taiwan includes:

- (1) US\$100,000 thousand was directly remitted by the subsidiary, ASE (Korea) Inc.;
- (2) US\$25,000 thousand was by means of Debt for Equity Swap;
- (3) Increasing US\$2,242 thousand of investment, which was recognized by MOEA on December 20, 2016, due to transferring of ASE (Shanghai) Inc.’s equity from ASE Assembly & Test (Shanghai) Limited and ASE Module (Shanghai) Inc. to ASE Mauritius Inc.;

(Continued)

- (4) US\$127,113 thousand for acquiring 40% shareholdings of ASEN from NXP B.V. by the subsidiary, J&R Holding Limited, was approved by MOEA on May 30, 2018.
- (5) US\$97,748 thousand for acquiring 30% shareholdings of ASEN from Beijing Unis Capital Management Co., Ltd. by the subsidiary, J&R Holding Limited, was approved by MOEA on October 30, 2019.

Note 9: It was the same fund that ASE Test, Inc. indirectly invested to ASE Investment (Kun Shan) Limited through another company in 3rd area and then invested to ASE (Kun Shan) Inc.

Note 10: ASE Assembly & Test (Shanghai) Limited invested US\$20,000 thousand to ASE Investment (Kun Shan) Limited and then re-invested to ASE (Kun Shan) Inc.

Note 11: The difference of US\$29,577 thousand between MOEA approved investment amount and accumulated outflow of investment from Taiwan was capital increased by earnings.

Note 12: The basis for investment income (loss) recognition is from the financial statements audited and attested by other CPA.

(Concluded)

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ASE TECHNOLOGY HOLDING CO., LTD.

STATEMENT OF CHANGES IN INVESTMENTS ACCOUNTED FOR USING THE EQUITY METHOD

FOR THE YEAR ENDED DECEMBER 31, 2019

(In Thousands of New Taiwan Dollars, Unless Stated Otherwise)

Investees	Balance, Beginning of Year		Increase in Investment (Note 1)		Decrease in Investment (Note 1)		Balance, End of Year			Market Value or Net Assets Value (Note 2)		
	Shares (In Thousands)	Amount	Shares (In Thousands)	Amount	Shares (In Thousands)	Amount	Shares (In Thousands)	%	Amount	Unit Price (NT Dollar)	Total Amount	Collateral
Ordinary shares												
Unlisted company												
ASE	5,528,783,764	\$ 102,841,802	465,360,000	\$ 3,888,584	-	\$ -	5,994,143,764	100	\$ 106,730,386	\$ 18.84	\$ 112,943,046	Nil
SPIL	3,391,748,878	161,020,782	-	-	-	(5,723,292)	3,391,748,878	100	155,297,490	22.12	75,011,007	Nil
USI Global	30,000,000	33,113,607	-	-	(30,000,000)	(33,113,607)	-	-	-	-	-	Nil
USI Inc.	-	-	2,119,854,880	31,982,170	-	-	2,119,854,880	100	31,982,170	14.45	30,631,647	Nil
		<u>\$ 296,976,191</u>		<u>\$ 35,870,754</u>		<u>\$(38,836,899)</u>			<u>\$ 294,010,046</u>		<u>\$ 218,585,700</u>	

Note 1: Increase and decrease in investments during the year consisted of the absorption and merger of subsidiaries, the capital increase of subsidiaries, share of profit (loss) and other comprehensive income (loss) of subsidiaries and cash dividends distributed by subsidiaries.

Note 2: Unit price of net assets is calculated based on the subsidiaries' financial statements and the shareholdings the Company held.

ASE TECHNOLOGY HOLDING CO., LTD.

STATEMENT OF LONG-TERM LOANS

AS OF DECEMBER 31, 2019

(In Thousands of New Taiwan Dollars)

Creditor	Credit Amount Dominated in Original Currency, Contract Period and Payment Term	Range of Interest Rates (%)	Balance, End of Year			Collateral
			Due within 1 year	Due over 1 year	Total	
Syndicated bank loans						
Bank of Taiwan, etc.	10%, 15%, 15%, 20% and 40% of the total credit amount will be repayable through May 2019 to May 2023, respectively.	1.80	\$ 3,333,000	\$ 16,667,000	\$ 20,000,000	endorsements/ guarantees provided by ASE
Others						
Sumitomo Mitsui	Repayable in November 2021	0.86-0.87	-	2,127,000	2,127,000	Nil
Hua Nan	Repayable in May 2021	0.84	-	1,000,000	1,000,000	Nil
Standard and Chartered	Repayable in December 2021	0.88-0.95	-	5,750,000	5,750,000	Nil
Cathay United	Repayable in June 2021	0.95	-	1,000,000	1,000,000	Nil
Taishin	Repayable in March 2021	0.95	-	800,000	800,000	Nil
DBS Bank Limited	Repayable in November 2021	0.88	-	2,100,000	2,100,000	Nil
Long-term bills payable						
Ta Ching Bills Finance Corporation	Repayable in March 2021 and March 2022 due 1,000,000 thousand, respectively	1.026	-	2,000,000	2,000,000	Nil
International Bills Finance Corporation	Repayable in March 2021	1.046	-	2,000,000	2,000,000	Nil
Mega Bills Finance Corporation	Repayable in March 2022	1.036-1.041	-	2,000,000	2,000,000	Nil
China Bills Finance Corporation	Repayable in March 2021	1.046	-	1,800,000	1,800,000	Nil
			3,333,000	37,244,000	40,577,000	
	Less: Unamortized arrangement fee and discounts		10,292	4,153	14,445	
			<u>\$ 3,322,708</u>	<u>\$ 37,239,847</u>	<u>\$ 40,562,555</u>	

ASE TECHNOLOGY HOLDING CO., LTD.

**STATEMENT OF GENERAL AND ADMINISTRATIVE EXPENSES
FOR THE YEAR ENDED DECEMBER 31, 2019
(In Thousands of New Taiwan Dollars)**

Item	General and administrative Expenses
Payroll and related expense	\$ 205,397
Professional fees	69,932
Insurance	18,862
Others	<u>194,636</u>
	<u>\$ 488,827</u>

ASE TECHNOLOGY HOLDING CO., LTD.

STATEMENT OF LABOR BY FUNCTION
 FOR THE YEAR ENDED DECEMBER 31, 2019 AND 2018
 (In Thousands of New Taiwan Dollars)

	Year Ended December 31	
	2019	2018
	Classified as Operating Expenses	Classified as Operating Expenses
Labor cost		
Salary	\$ 136,597	\$ 85,253
Labor and health insurance	8,316	3,936
Pension	1,892	1,062
Compensation to directors	68,800	35,380
Others	<u>81,557</u>	<u>6,115</u>
	<u>\$ 297,162</u>	<u>\$ 131,746</u>

Note:

- As of December 31, 2019 and 2018, the Company had 73 and 56 employees, respectively within which 9 and 12 directors were not employed by the Company, respectively.
- The company's stock has listed on the stock exchange and increased of disclosing additional information as follows:
 - Average labor cost for the years ended December 31, 2019 and 2018 were NT\$3,568 thousand and NT\$2,190 thousand, respectively.
 - Average salary for the years ended December 31, 2019 and 2018 were NT\$2,134 thousand and NT\$1,938 thousand, respectively.
 - The average salary increased by 10.1% year over year.