

NOTE 19 — ACCUMULATED OTHER COMPREHENSIVE INCOME (LOSS)

The following table summarizes the changes in accumulated other comprehensive income (loss) by component:

(In millions)

Year Ended June 30,	2018	2017	2016
Derivatives			
Balance, beginning of period	\$ 134	\$ 352	\$ 590
Unrealized gains, net of tax of \$11, \$4, and \$24	218	328	351
Reclassification adjustments for gains included in revenue	(185)	(555)	(625)
Tax expense included in provision for income taxes	6	9	36
Amounts reclassified from accumulated other comprehensive income	(179)	(546)	(589)
Net change related to derivatives, net of tax of \$5, \$(5), and \$(12)	39	(218)	(238)
Balance, end of period	\$ 173	\$ 134	\$ 352
Investments			
Balance, beginning of period	\$ 1,825	\$ 2,941	\$ 3,169
Unrealized gains (losses), net of tax of \$(427), \$267, and \$120	(1,146)	517	219
Reclassification adjustments for gains included in other income (expense), net	(2,309)	(2,513)	(688)
Tax expense included in provision for income taxes	738	880	241
Amounts reclassified from accumulated other comprehensive income	(1,571)	(1,633)	(447)
Net change related to investments, net of tax of \$(1,165), \$(613), and \$(121)	(2,717)	(1,116)	(228)
Balance, end of period	\$ (892)	\$ 1,825	\$ 2,941
Translation Adjustments and Other			
Balance, beginning of period	\$ (1,332)	\$ (1,499)	\$ (1,237)
Translation adjustments and other, net of tax effects of \$0, \$9, and \$(33)	(178)	167	(262)
Balance, end of period	\$ (1,510)	\$ (1,332)	\$ (1,499)
Cumulative effect of accounting change	42	0	0
Accumulated other comprehensive income (loss), end of period	\$ (2,187)	\$ 627	\$ 1,794

NOTE 20 — EMPLOYEE STOCK AND SAVINGS PLANS

We grant stock-based compensation to employees and directors. As of June 30, 2018, an aggregate of 381 million shares were authorized for future grant under our stock plans. In fiscal year 2018, our Board of Directors approved the 2017 Stock Plan, which authorized an additional 308 million shares for future grant under our stock plans. Awards that expire or are canceled without delivery of shares generally become available for issuance under the plans. We issue new shares of Microsoft common stock to satisfy vesting of awards granted under our stock plans. We also have an ESPP for all eligible employees.

Stock-based compensation expense and related income tax benefits were as follows:

(In millions)

Year Ended June 30,	2018	2017	2016
Stock-based compensation expense	\$ 3,940	\$ 3,266	\$ 2,668
Income tax benefits related to stock-based compensation	823	1,066	882

Stock Plans

Stock awards entitle the holder to receive shares of Microsoft common stock as the award vests. Stock awards generally vest over a four or five-year service period.