



Supplemental Operational Performance Data

Set forth below are tables that provide supplemental information regarding the operational performance results for the three months ended March 31, 2017, as well as the prior eight quarterly reporting periods and the years ended December 31, 2016 and 2015 for the payment programs of Mastercard International Incorporated and Mastercard Europe SA (collectively, "Mastercard"), the principal operating subsidiaries of Mastercard Incorporated.

1. Branded Volume and Transactions

The tables below set forth the gross dollar volume ("GDV"), purchase volume, cash volume and the number of purchase transactions, cash transactions, and cards on a regional basis for Mastercard™-branded cards. Growth rates over prior periods are provided for volume-based data.

GDV (\$ Billions)											
All Mastercard Credit,											
Charge and Debit Programs											
	Q1'15	Q2'15	Q3'15	Q4'15	Q1'16	Q2'16	Q3'16	Q4'16	Q1'17	FY 2015	FY 2016
APMEA	\$330	\$344	\$350	\$363	\$349	\$371	\$381	\$378	\$370	\$1,387	\$1,480
Canada	30	34	33	34	29	36	36	38	34	131	139
Europe	286	321	334	343	319	353	337	336	312	1,284	1,345
Latin America	80	80	77	83	74	79	83	90	86	320	326
Worldwide less United States	726	779	794	823	771	840	837	842	802	3,123	3,290
United States	339	364	366	378	372	391	384	388	380	1,446	1,535
Worldwide	1,065	1,143	1,160	1,201	1,143	1,231	1,220	1,230	1,181	4,569	4,825
Mastercard Credit and Charge Programs											
Worldwide less United States	421	446	447	456	421	458	465	466	445	1,770	1,810
United States	152	172	175	181	169	184	182	189	178	681	724
Worldwide	573	618	623	637	590	642	648	654	623	2,451	2,534
Mastercard Debit Programs											
Worldwide less United States	305	333	347	367	350	382	371	376	357	1,353	1,480
United States	187	192	190	197	203	207	201	199	201	766	810
Worldwide	492	525	537	564	553	589	573	575	558	2,119	2,290
GDV Local Growth											
All Mastercard Credit,											
Charge and Debit Programs											
	Q1'15	Q2'15	Q3'15	Q4'15	Q1'16	Q2'16	Q3'16	Q4'16	Q1'17	FY 2015	FY 2016
APMEA	15.1%	15.1%	14.0%	13.7%	12.9%	12.8%	10.0%	7.1%	7.5%	14.5%	10.6%
Canada	15.0%	17.3%	17.8%	13.8%	8.6%	10.9%	9.3%	9.4%	12.3%	16.0%	9.6%
Europe	15.4%	16.8%	17.5%	15.8%	18.3%	14.1%	4.6%	3.2%	1.4%	16.4%	9.6%
Europe adjusted for Article 8	19%	20%	20%	18%	20%	19%	17%	16%	14%	19%	18%
Latin America	14.9%	15.4%	16.7%	15.1%	15.1%	15.4%	14.4%	14.5%	15.3%	15.5%	14.8%
Worldwide less United States	15.2%	16.0%	15.9%	14.7%	15.1%	13.5%	8.1%	6.3%	6.0%	15.4%	10.6%
WW less USA adjusted for Article 8	16%	17%	17%	15%	16%	15%	13%	11%	11%	16%	14%
United States	6.5%	7.2%	7.8%	8.5%	9.9%	7.5%	4.9%	2.6%	2.0%	7.5%	6.1%
Worldwide	12.3%	13.0%	13.2%	12.7%	13.4%	11.5%	7.1%	5.1%	4.7%	12.8%	9.1%
Worldwide adjusted for Article 8	13%	14%	14%	13%	14%	13%	10%	8%	8%	13%	11%
Mastercard Credit and Charge Programs											
Worldwide less United States	10.9%	11.3%	10.7%	9.5%	8.6%	7.9%	6.4%	5.8%	7.3%	10.6%	7.1%
United States	5.3%	6.6%	8.7%	9.3%	11.4%	6.8%	4.0%	4.2%	5.4%	7.5%	6.4%
Worldwide	9.4%	10.0%	10.2%	9.4%	9.4%	7.6%	5.7%	5.3%	6.8%	9.7%	6.9%
Mastercard Debit Programs											
Worldwide less United States	21.7%	22.8%	23.2%	21.9%	24.1%	21.0%	10.4%	7.0%	4.3%	22.4%	15.1%
United States	7.5%	7.6%	6.9%	7.8%	8.6%	8.1%	5.8%	1.0%	-0.8%	7.5%	5.8%
Worldwide	15.9%	16.8%	16.9%	16.6%	17.9%	16.1%	8.8%	4.9%	2.4%	16.6%	11.6%

Purchase Volume (\$ Billions)											
All Mastercard Credit,											
Charge and Debit Programs	Q1'15	Q2'15	Q3'15	Q4'15	Q1'16	Q2'16	Q3'16	Q4'16	Q1'17	FY 2015	FY 2016
APMEA	\$220	\$232	\$237	\$245	\$232	\$247	\$256	\$260	\$252	\$934	\$995
Canada	28	33	31	33	27	34	34	36	32	124	132
Europe	200	220	228	234	218	234	214	214	200	882	879
Latin America	48	47	45	47	43	47	51	56	55	187	196
Worldwide less United States	496	532	541	559	520	563	555	565	538	2,128	2,203
United States	287	310	312	324	316	335	327	333	324	1,233	1,312
Worldwide	783	842	853	883	836	898	882	898	862	3,361	3,514
Mastercard Credit and Charge Programs											
Worldwide less United States	382	406	407	417	385	419	426	426	407	1,611	1,657
United States	146	165	168	174	162	176	174	180	170	652	693
Worldwide	528	571	575	590	547	596	600	607	577	2,264	2,350
Mastercard Debit Programs											
Worldwide less United States	114	126	134	142	135	143	129	138	132	516	546
United States	141	145	144	151	154	159	153	153	154	581	619
Worldwide	255	272	278	293	289	302	282	291	286	1,097	1,165
Purchase Volume Local Growth											
All Mastercard Credit,											
Charge and Debit Programs	Q1'15	Q2'15	Q3'15	Q4'15	Q1'16	Q2'16	Q3'16	Q4'16	Q1'17	FY 2015	FY 2016
APMEA	15.2%	15.7%	14.5%	13.4%	11.7%	10.9%	8.4%	7.7%	8.9%	14.7%	9.6%
Canada	17.2%	19.2%	19.2%	14.5%	9.5%	10.7%	9.9%	10.1%	13.2%	17.5%	10.1%
Europe	13.2%	14.9%	14.8%	13.5%	14.6%	8.9%	-2.6%	-2.7%	-3.1%	14.1%	4.2%
Europe adjusted for Article 8	18%	19%	18%	16%	16%	16%	16%	16%	16%	18%	16%
Latin America	19.2%	18.3%	18.0%	16.1%	15.2%	15.3%	15.6%	17.0%	18.2%	17.9%	15.8%
Worldwide less United States	14.9%	15.8%	15.2%	13.7%	13.1%	10.4%	4.5%	4.4%	5.1%	14.9%	7.9%
WW less USA adjusted for Article 8	17%	17%	16%	15%	14%	13%	12%	12%	13%	16%	12%
United States	7.0%	7.1%	7.9%	8.8%	10.3%	8.0%	4.9%	2.7%	2.4%	7.7%	6.4%
Worldwide	11.9%	12.4%	12.4%	11.9%	12.0%	9.5%	4.7%	3.8%	4.1%	12.1%	7.3%
Worldwide adjusted for Article 8	13%	13%	13%	12%	12%	11%	9%	8%	9%	13%	10%
Mastercard Credit and Charge Programs											
Worldwide less United States	12.3%	12.6%	11.7%	10.4%	9.3%	8.4%	6.9%	6.0%	7.5%	11.8%	7.6%
United States	6.0%	6.4%	8.2%	8.8%	11.1%	6.9%	3.8%	3.8%	4.9%	7.4%	6.2%
Worldwide	10.5%	10.8%	10.7%	10.0%	9.8%	8.0%	6.0%	5.4%	6.7%	10.5%	7.2%
Mastercard Debit Programs											
Worldwide less United States	24.2%	27.2%	27.3%	24.5%	25.3%	16.6%	-2.7%	-0.2%	-1.6%	25.8%	8.7%
United States	8.1%	7.9%	7.6%	8.8%	9.5%	9.2%	6.2%	1.4%	-0.3%	8.1%	6.5%
Worldwide	14.7%	16.1%	16.3%	15.9%	16.4%	12.6%	2.0%	0.6%	-0.9%	15.8%	7.6%

Purchase Transactions (Millions)											
All Mastercard Credit,											
Charge and Debit Programs	Q1'15	Q2'15	Q3'15	Q4'15	Q1'16	Q2'16	Q3'16	Q4'16	Q1'17	FY 2015	FY 2016
APMEA	2,681	2,908	3,124	3,339	3,266	3,565	3,768	4,149	4,073	12,052	14,748
Canada	393	453	468	487	446	511	526	542	501	1,801	2,025
Europe	3,940	4,390	4,637	4,935	4,865	5,165	4,868	5,135	5,033	17,902	20,032
Latin America	1,340	1,385	1,444	1,518	1,483	1,562	1,644	1,742	1,732	5,687	6,432
Worldwide less United States	8,353	9,136	9,673	10,279	10,060	10,802	10,806	11,570	11,340	37,442	43,237
United States	5,116	5,582	5,673	5,896	5,775	6,173	6,063	6,006	5,784	22,267	24,016
Worldwide	13,470	14,719	15,346	16,175	15,834	16,975	16,869	17,576	17,124	59,709	67,253
Mastercard Credit and Charge Programs											
Worldwide less United States	5,163	5,543	5,784	6,024	5,777	6,216	6,429	6,719	6,486	22,515	25,142
United States	1,608	1,836	1,909	1,993	1,843	2,017	2,019	2,066	1,886	7,346	7,944
Worldwide	6,772	7,379	7,693	8,017	7,620	8,233	8,448	8,785	8,371	29,861	33,086
Mastercard Debit Programs											
Worldwide less United States	3,190	3,593	3,889	4,255	4,283	4,585	4,376	4,850	4,854	14,927	18,095
United States	3,508	3,747	3,764	3,903	3,932	4,156	4,044	3,940	3,899	14,921	16,072
Worldwide	6,698	7,340	7,653	8,158	8,215	8,742	8,421	8,790	8,753	29,848	34,167
Purchase Transactions Growth											
All Mastercard Credit,											
Charge and Debit Programs	Q1'15	Q2'15	Q3'15	Q4'15	Q1'16	Q2'16	Q3'16	Q4'16	Q1'17	FY 2015	FY 2016
APMEA	20.9%	20.3%	20.6%	20.8%	21.8%	22.6%	20.6%	24.3%	24.7%	20.7%	22.4%
Canada	17.1%	19.1%	19.0%	16.0%	13.4%	12.7%	12.4%	11.3%	12.4%	17.8%	12.4%
Europe	21.4%	22.8%	23.2%	22.1%	23.5%	17.7%	5.0%	4.1%	3.5%	22.4%	11.9%
Europe adjusted for Article 8	28%	29%	28%	26%	26%	25%	23%	22%	23%	28%	24%
Latin America	12.8%	12.4%	12.3%	10.7%	10.7%	12.7%	13.9%	14.8%	16.8%	12.0%	13.1%
Worldwide less United States	19.6%	20.1%	20.4%	19.6%	20.4%	18.2%	11.7%	12.6%	12.7%	19.9%	15.5%
WW less USA adjusted for Article 8	22%	22%	22%	21%	21%	21%	20%	21%	22%	22%	21%
United States	8.3%	8.4%	9.8%	11.1%	12.9%	10.6%	6.9%	1.9%	0.2%	9.4%	7.9%
Worldwide	15.0%	15.4%	16.2%	16.3%	17.6%	15.3%	9.9%	8.7%	8.1%	15.8%	12.6%
Worldwide adjusted for Article 8	16%	16%	17%	17%	18%	17%	15%	14%	14%	17%	16%
Mastercard Credit and Charge Programs											
Worldwide less United States	11.9%	11.4%	11.9%	11.5%	11.9%	12.1%	11.2%	11.5%	12.3%	11.7%	11.7%
United States	6.5%	7.2%	10.6%	11.9%	14.6%	9.9%	5.7%	3.6%	2.3%	9.2%	8.1%
Worldwide	10.6%	10.3%	11.6%	11.6%	12.5%	11.6%	9.8%	9.6%	9.9%	11.0%	10.8%
Mastercard Debit Programs											
Worldwide less United States	34.6%	36.6%	35.7%	33.3%	34.3%	27.6%	12.5%	14.0%	13.3%	35.0%	21.2%
United States	9.2%	9.0%	9.3%	10.7%	12.1%	10.9%	7.4%	1.0%	-0.9%	9.6%	7.7%
Worldwide	20.0%	21.0%	21.3%	21.4%	22.6%	19.1%	10.0%	7.8%	6.6%	20.9%	14.5%

Cash Volume (\$ Billions)											
All Mastercard Credit,											
Charge and Debit Programs	Q1'15	Q2'15	Q3'15	Q4'15	Q1'16	Q2'16	Q3'16	Q4'16	Q1'17	FY 2015	FY 2016
APMEA	\$110	\$112	\$113	\$117	\$117	\$124	\$125	\$119	\$118	\$453	\$484
Canada	2	2	2	2	2	2	2	2	2	7	7
Europe	86	101	106	110	101	119	123	123	112	402	466
Latin America	32	33	32	36	31	32	32	34	32	133	130
Worldwide less United States	230	248	253	264	251	277	282	277	263	995	1,087
United States	52	54	54	53	56	56	57	54	56	213	223
Worldwide	282	301	307	318	307	334	339	332	319	1,209	1,310
Mastercard Credit and Charge Programs											
Worldwide less United States	39	40	40	39	36	39	39	39	38	159	153
United States	6	7	8	7	7	8	8	8	8	28	32
Worldwide	45	48	48	47	43	46	47	48	47	187	185
Mastercard Debit Programs											
Worldwide less United States	191	207	213	225	215	239	243	238	225	837	934
United States	46	46	46	46	49	48	49	46	48	185	192
Worldwide	237	254	260	271	263	287	291	284	273	1,022	1,126
Cash Volume Local Growth											
All Mastercard Credit,											
Charge and Debit Programs	Q1'15	Q2'15	Q3'15	Q4'15	Q1'16	Q2'16	Q3'16	Q4'16	Q1'17	FY 2015	FY 2016
APMEA	15.0%	14.1%	12.9%	14.4%	15.3%	16.6%	13.5%	5.8%	4.7%	14.1%	12.7%
Canada	-9.6%	-8.2%	-2.5%	1.1%	-4.6%	13.8%	-0.4%	-3.5%	-2.6%	-5.2%	1.4%
Europe	21.0%	21.3%	23.6%	20.9%	27.3%	26.0%	19.8%	15.5%	10.4%	21.7%	21.7%
Latin America	9.1%	11.5%	14.9%	13.8%	15.0%	15.6%	12.5%	10.7%	10.6%	12.3%	13.3%
Worldwide less United States	16.0%	16.3%	17.3%	16.8%	19.6%	20.3%	15.9%	10.4%	7.7%	16.6%	16.4%
United States	3.7%	7.6%	6.9%	6.6%	7.2%	4.8%	5.0%	1.7%	0.2%	6.2%	4.6%
Worldwide	13.5%	14.7%	15.3%	15.0%	17.2%	17.4%	14.0%	8.9%	6.3%	14.6%	14.2%
Mastercard Credit and Charge Programs											
Worldwide less United States	-1.2%	-0.6%	1.7%	0.2%	1.4%	2.4%	0.5%	3.4%	5.2%	0.0%	1.9%
United States	-10.2%	13.5%	22.3%	20.7%	19.0%	5.7%	7.0%	13.2%	16.1%	11.1%	10.9%
Worldwide	-2.5%	1.3%	4.5%	3.0%	4.0%	2.9%	1.6%	5.0%	7.0%	1.6%	3.3%
Mastercard Debit Programs											
Worldwide less United States	20.3%	20.3%	20.8%	20.3%	23.4%	23.8%	18.9%	11.7%	8.2%	20.4%	19.1%
United States	5.9%	6.8%	4.7%	4.7%	5.6%	4.6%	4.7%	-0.2%	-2.2%	5.5%	3.7%
Worldwide	17.2%	17.6%	17.5%	17.3%	19.7%	20.1%	16.3%	9.6%	6.2%	17.4%	16.2%

Cash Transactions (Millions)											
All Mastercard Credit,											
Charge and Debit Programs	Q1'15	Q2'15	Q3'15	Q4'15	Q1'16	Q2'16	Q3'16	Q4'16	Q1'17	FY 2015	FY 2016
APMEA	1,025	1,074	1,136	1,200	1,206	1,253	1,298	1,285	1,258	4,434	5,041
Canada	5	6	6	6	5	6	6	5	6	22	22
Europe	678	766	803	842	814	912	923	925	863	3,090	3,573
Latin America	213	224	231	249	240	251	252	264	252	917	1,007
Worldwide less United States	1,922	2,070	2,175	2,297	2,265	2,421	2,478	2,479	2,379	8,463	9,644
United States	326	343	340	332	338	351	352	326	322	1,342	1,368
Worldwide	2,247	2,413	2,516	2,629	2,603	2,773	2,831	2,805	2,701	9,805	11,012
Mastercard Credit and Charge Programs											
Worldwide less United States	179	189	189	190	177	189	188	191	179	747	745
United States	7	9	9	9	9	9	10	9	8	34	37
Worldwide	186	198	198	199	186	198	198	200	187	781	782
Mastercard Debit Programs											
Worldwide less United States	1,743	1,880	1,986	2,107	2,088	2,232	2,290	2,288	2,200	7,716	8,898
United States	319	335	331	323	330	342	343	317	314	1,308	1,331
Worldwide	2,061	2,215	2,318	2,430	2,417	2,574	2,633	2,605	2,514	9,024	10,229
Cash Transactions Growth											
All Mastercard Credit,											
Charge and Debit Programs	Q1'15	Q2'15	Q3'15	Q4'15	Q1'16	Q2'16	Q3'16	Q4'16	Q1'17	FY 2015	FY 2016
APMEA	15.5%	15.2%	12.9%	15.7%	17.6%	16.7%	14.3%	7.1%	4.4%	14.8%	13.7%
Canada	-4.1%	-3.5%	-1.7%	1.9%	2.8%	2.7%	-1.2%	-3.1%	2.7%	-1.9%	0.2%
Europe	13.7%	14.5%	17.8%	17.3%	20.0%	19.0%	14.9%	9.8%	6.0%	15.9%	15.6%
Latin America	7.4%	9.2%	10.9%	10.5%	12.6%	11.8%	9.3%	5.7%	5.1%	9.5%	9.7%
Worldwide less United States	13.9%	14.2%	14.4%	15.6%	17.9%	17.0%	13.9%	7.9%	5.0%	14.6%	13.9%
United States	4.8%	4.7%	1.5%	2.2%	3.8%	2.4%	3.6%	-1.9%	-4.8%	3.3%	2.0%
Worldwide	12.5%	12.7%	12.5%	13.7%	15.8%	14.9%	12.5%	6.7%	3.7%	12.9%	12.3%
Mastercard Credit and Charge Programs											
Worldwide less United States	-9.4%	-10.0%	-6.5%	-4.2%	-1.0%	-0.2%	-0.4%	0.7%	0.8%	-7.6%	-0.2%
United States	14.6%	25.2%	18.7%	17.1%	20.6%	10.3%	5.9%	0.9%	-4.9%	19.0%	8.8%
Worldwide	-8.6%	-8.9%	-5.6%	-3.5%	-0.2%	0.2%	-0.1%	0.7%	0.5%	-6.7%	0.2%
Mastercard Debit Programs											
Worldwide less United States	17.0%	17.4%	16.9%	17.8%	19.8%	18.7%	15.3%	8.6%	5.4%	17.3%	15.3%
United States	4.6%	4.2%	1.1%	1.8%	3.4%	2.1%	3.5%	-1.9%	-4.7%	2.9%	1.8%
Worldwide	14.9%	15.2%	14.4%	15.4%	17.3%	16.2%	13.6%	7.2%	4.0%	15.0%	13.4%

Cards (Millions)											
All Mastercard Credit, Charge and Debit Programs											
	Q1'15	Q2'15	Q3'15	Q4'15	Q1'16	Q2'16	Q3'16	Q4'16	Q1'17	FY 2015	FY 2016
APMEA	490	511	531	546	565	582	601	620	639	546	620
Canada	44	45	46	48	48	48	49	52	52	48	52
Europe	380	384	393	403	409	420	428	438	442	403	438
Latin America	152	157	159	162	165	163	165	169	170	162	169
Worldwide less United States	1,065	1,097	1,129	1,158	1,186	1,213	1,243	1,278	1,304	1,158	1,278
United States	354	359	364	373	379	381	381	389	390	373	389
Worldwide	1,420	1,456	1,493	1,531	1,565	1,594	1,624	1,668	1,693	1,531	1,668
Mastercard Credit and Charge Programs											
Worldwide less United States	561	566	568	570	571	573	574	581	582	570	581
United States	182	185	186	190	192	194	196	200	201	190	200
Worldwide	743	751	755	761	763	767	770	782	783	761	782
Mastercard Debit Programs											
Worldwide less United States	504	531	561	588	615	640	669	697	722	588	697
United States	173	174	177	183	186	187	185	189	189	183	189
Worldwide	677	705	738	770	802	827	854	886	910	770	886
Cards Growth											
All Mastercard Credit, Charge and Debit Programs											
	Q1'15	Q2'15	Q3'15	Q4'15	Q1'16	Q2'16	Q3'16	Q4'16	Q1'17	FY 2015	FY 2016
APMEA	15.6%	16.3%	15.7%	15.2%	15.3%	14.0%	13.1%	13.5%	13.1%	15.2%	13.5%
Canada	8.2%	10.5%	9.1%	8.8%	8.3%	6.4%	7.5%	8.8%	9.0%	8.8%	8.8%
Europe	13.8%	12.3%	9.8%	8.3%	7.6%	9.2%	8.9%	8.7%	8.2%	8.3%	8.7%
Latin America	8.1%	9.0%	8.4%	6.7%	8.7%	4.2%	3.5%	4.4%	3.4%	6.7%	4.4%
Worldwide less United States	13.5%	13.5%	12.2%	11.2%	11.3%	10.6%	10.1%	10.4%	9.9%	11.2%	10.4%
United States	6.9%	8.5%	7.0%	6.1%	6.9%	6.0%	4.8%	4.4%	2.9%	6.1%	4.4%
Worldwide	11.8%	12.2%	10.9%	9.9%	10.2%	9.5%	8.8%	8.9%	8.2%	9.9%	8.9%
Mastercard Credit and Charge Programs											
Worldwide less United States	3.0%	3.0%	2.6%	1.6%	1.7%	1.2%	1.1%	1.9%	1.9%	1.6%	1.9%
United States	3.2%	7.2%	5.3%	5.1%	5.8%	4.8%	5.0%	5.2%	4.6%	5.1%	5.2%
Worldwide	3.0%	4.0%	3.2%	2.4%	2.7%	2.1%	2.1%	2.7%	2.6%	2.4%	2.7%
Mastercard Debit Programs											
Worldwide less United States	28.1%	27.4%	24.1%	22.4%	22.1%	20.6%	19.2%	18.6%	17.3%	22.4%	18.6%
United States	11.0%	9.9%	8.7%	7.3%	8.0%	7.2%	4.5%	3.6%	1.1%	7.3%	3.6%
Worldwide	23.3%	22.5%	20.1%	18.5%	18.5%	17.3%	15.7%	15.0%	13.6%	18.5%	15.0%

Note that the figures in the preceding tables may not sum due to rounding; growth represents change from the comparable year-ago period.

Footnote

The tables set forth the gross dollar volume (“GDV”), purchase volume, cash volume and the number of purchase transactions, cash transactions, accounts and cards on a regional and global basis for Mastercard™-branded cards. Growth rates over prior periods are provided for volume-based data.

Debit transactions on Maestro® and Cirrus®-branded cards and transactions involving brands other than Mastercard are not included in the preceding tables.

For purposes of the table: GDV represents purchase volume plus cash volume and includes the impact of balance transfers and convenience checks; “purchase volume” means the aggregate dollar amount of purchases made with Mastercard-branded cards for the relevant period; and “cash volume” means the aggregate dollar amount of cash disbursements obtained with Mastercard-branded cards for the relevant period. The number of cards includes virtual cards, which are Mastercard-branded payment accounts that do not generally have physical cards associated with them.

The Mastercard payment product is comprised of credit, charge and debit programs, and data relating to each type of program is included in the tables. Debit programs include Mastercard-branded debit programs where the primary means of cardholder validation at the point of sale is for cardholders either to sign a sales receipt or enter a PIN. The tables include information with respect to transactions involving Mastercard-branded cards that are not switched by Mastercard and transactions for which Mastercard does not earn significant revenues.

Information denominated in U.S. dollars is calculated by applying an established U.S. dollar/local currency exchange rate for each local currency in which Mastercard volumes are reported. These exchange rates are calculated on a quarterly basis using the average exchange rate for each quarter. Mastercard reports period-over-period rates of change in purchase volume and cash volume on the basis of local currency information, in order to eliminate the impact of changes in the value of foreign currencies against the U.S. dollar in calculating such rates of change.

The data set forth in the GDV, purchase volume, purchase transactions, cash volume and cash transactions columns is provided by Mastercard customers and is subject to verification by Mastercard and partial cross-checking against information provided by Mastercard’s transaction processing systems. The data set forth in the accounts and cards columns is provided by Mastercard customers and is subject to certain limited verification by Mastercard. A portion of the data set forth in the accounts and cards columns reflects the impact of routine portfolio changes among customers and other practices that may lead to over counting of the underlying data in certain circumstances. All data is subject to revision and amendment by Mastercard’s customers subsequent to the date of its release.

2. Switched Transactions

The table below sets forth the total number of transactions switched by Mastercard and growth from the comparable year-ago period.

Period		Switched Trans. (Mil.)	Growth
2017Q1	(2)	14,700	16.7%
2016Q4		15,200	17.2%
2016Q3		14,452	17.7%
2016Q2		13,688	14.0%
2016Q1	(1)	12,601	14.2%
2015Q4		12,971	12.2%
2015Q3		12,279	12.0%
2015Q2		12,012	13.2%
2015Q1		11,035	12.0%
FY 2016		55,941	15.8%
FY 2015		48,297	12.4%

3. Cross Border Volume

The table below sets forth the Cross Border Volume Growth from the comparable year-ago period, on a local currency basis and U.S. dollar-converted basis, for all Mastercard-branded programs.

Period		Growth (Local)	Growth (USD)
2017Q1	(2)	12.8%	9.6%
2016Q4		12.9%	7.9%
2016Q3		12.4%	9.0%
2016Q2		10.3%	7.1%
2016Q1	(1)	11.9%	6.3%
2015Q4		12.3%	0.9%
2015Q3		15.7%	0.1%
2015Q2		16.6%	1.2%
2015Q1		18.7%	3.4%
FY 2016		11.9%	7.6%
FY 2015		15.7%	1.3%

Note:

- (1) There was one more day in this period vs. the same period the previous year
- (2) There was one less day in this period vs. the same period the previous year

4. Cards

The tables below set forth the number of Mastercard, Maestro and Total Cards with growth rates from the comparable year-ago period.

MasterCard Cards			Maestro Cards			Total WW Mastercard & Maestro Cards		
Period	(Mil.)	Growth	Period	(Mil.)	Growth	Period	(Mil.)	Growth
2017Q1	1,693	8.2%	2017Q1	660	-1.6%	2017Q1	2,353	5.3%
2016Q4	1,668	8.9%	2016Q4	666	-1.5%	2016Q4	2,334	5.7%
2016Q3	1,624	8.8%	2016Q3	667	-2.2%	2016Q3	2,290	5.3%
2016Q2	1,594	9.5%	2016Q2	669	-1.8%	2016Q2	2,263	5.9%
2016Q1	1,565	10.2%	2016Q1	671	-1.4%	2016Q1	2,236	6.5%
2015Q4	1,531	9.9%	2015Q4	677	-1.1%	2015Q4	2,208	6.3%
2015Q3	1,493	10.9%	2015Q3	682	-2.0%	2015Q3	2,174	6.5%
2015Q2	1,456	12.2%	2015Q2	681	-2.1%	2015Q2	2,138	7.2%
2015Q1	1,420	11.8%	2015Q1	680	-2.3%	2015Q1	2,100	6.8%