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12 Attorneys for Plaintiffs and Counterclaim-  
Defendants Advanced Micro Devices, Inc.  
13 and ATI Technologies, ULC

14 UNITED STATES DISTRICT COURT  
15 NORTHERN DISTRICT OF CALIFORNIA  
16

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18 SAMSUNG ELECTRONICS CO., LTD.,  
19 Counterclaim-Plaintiff,

20 v.

21 (1) ADVANCED MICRO DEVICES,  
INC., and  
22 (2) ATI TECHNOLOGIES, ULC,  
23 Counterclaim-Defendants.

Case No. CV-08-0986-SI

**COUNTERCLAIM-DEFENDANTS'  
REPLY AND COUNTERCLAIM IN  
RESPONSE TO THE  
COUNTERCLAIMS OF SAMSUNG  
ELECTRONICS CO., LTD.**

**[DEMAND FOR JURY TRIAL]**

24  
25 Counterclaim-Defendants Advanced Micro Devices, Inc. (“AMD”) and ATI  
26 Technologies, ULC (“ATI”) (collectively, “Counterclaim-Defendants”), by and through their  
27 counsel, reply and counterclaim in response to the counterclaims filed by Counterclaim-Plaintiff  
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1 Samsung Electronics Co., Ltd. (“SEC”) as follows:

2 **PARTIES**

3 1. On information and belief, Counterclaim-Defendants admit the allegations of  
4 paragraph 62 of SEC’s counterclaims.

5 2. Counterclaim-Defendants admit the allegations of paragraph 63 of SEC’s  
6 counterclaims.

7 3. Counterclaim-Defendants admit the allegations of paragraph 64 of SEC’s  
8 counterclaims.

9 **JURISDICTION AND VENUE**

10 4. In response to paragraph 65 of SEC’s counterclaims, Counterclaim-Defendants  
11 admit that this Court has subject matter jurisdiction over SEC’s counterclaims. As to the  
12 remaining allegations of paragraph 65 of SEC’s counterclaims, Counterclaim-Defendants lack  
13 sufficient knowledge or information to admit or deny such allegations, and so deny those  
14 allegations and put SEC to its strictest proof.

15 5. In response to paragraph 66 of SEC’s counterclaims, Counterclaim-Defendants do  
16 not contest venue in this district.

17 **RESPONSE TO FIRST CLAIM FOR RELIEF**

18 **(Declaratory Judgment of Non-Infringement)**

19 6. In response to paragraph 67 of SEC’s counterclaims, Counterclaim-Defendants  
20 incorporate by reference their above responses to paragraphs 62-66 of SEC’s counterclaims as if  
21 specifically set forth herein.

22 7. Counterclaim-Defendants admit the allegations of paragraph 68 of SEC’s  
23 counterclaims.

24 8. Counterclaim-Defendants admit that, on February 19, 2008, they filed this lawsuit,  
25

1 which alleges that SEC infringes U.S. Patent No. 5,545,592, U.S. Patent No. 4,737,830, U.S.  
2 Patent No. 5,248,893, U.S. Patent No. 5,559,990, U.S. Patent No. 5,377,200, and U.S. Patent No.  
3 6,784,879. Counterclaim-Defendants further admit that on May 1, 2008, they filed their First  
4 Amended Complaint, which alleges that SEC infringes those six patents, as well as U.S. Patent  
5 No. 5,623,434. Except as expressly admitted, Counterclaim-Defendants deny each and every  
6 allegation of paragraph 69 of SEC's counterclaims.  
7

8 9. Counterclaim-Defendants admit the allegations of paragraph 70 of SEC's  
9 counterclaims.

10 10. Counterclaim-Defendants deny the allegations of paragraph 71 of SEC's  
11 counterclaims.

12 11. Counterclaim-Defendants deny the allegations of paragraph 72 of SEC's  
13 counterclaims.  
14

15 **RESPONSE TO SECOND CLAIM FOR RELIEF**  
16 **(Declaratory Judgment of Invalidity)**

17 12. In response to paragraph 73 of SEC's counterclaims, Counterclaim-Defendants  
18 incorporate by reference their above responses to paragraphs 62-72 of SEC's counterclaims as if  
19 specifically set forth herein.

20 13. Counterclaim-Defendants admit the allegations of paragraph 74 of SEC's  
21 counterclaims.  
22

23 14. Counterclaim-Defendants admit that, on February 19, 2008, they filed this lawsuit,  
24 which alleges that SEC infringes U.S. Patent No. 5,545,592, U.S. Patent No. 4,737,830, U.S.  
25 Patent No. 5,248,893, U.S. Patent No. 5,559,990, U.S. Patent No. 5,377,200, and U.S. Patent No.  
26 6,784,879. Counterclaim-Defendants further admit that on May 1, 2008, they filed their First  
27 Amended Complaint, which alleges that SEC infringes those six patents, as well as U.S. Patent  
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1 No. 5,623,434. Except as expressly admitted, Counterclaim-Defendants deny each and every  
2 allegation of paragraph 75 of SEC’s counterclaims.

3 15. Counterclaim-Defendants admit the allegations of paragraph 76 of SEC’s  
4 counterclaims.

5 16. Counterclaim-Defendants deny the allegations of paragraph 77 of SEC’s  
6 counterclaims.

7 17. Counterclaim-Defendants deny the allegations of paragraph 78 of SEC’s  
8 counterclaims.

9  
10 **RESPONSE TO THIRD CLAIM FOR RELIEF**  
11 **(Infringement of U.S. Patent No. 6,407,429)**

12 18. In response to paragraph 79 of SEC’s counterclaims, Counterclaim-Defendants  
13 incorporate by reference their above responses to paragraphs 62-78 of SEC’s counterclaims as if  
14 specifically set forth herein.

15 19. In response to paragraph 80 of SEC’s counterclaims, Counterclaim-Defendants  
16 admit that, on its face, United States Patent No. 6,407,429 (the “’429 Patent”) shows a title of  
17 “Semiconductor Device Having Silicon on Insulator and Fabricating Method Therefor,” shows an  
18 issue date of June 18, 2002, names Young-Gun Ko as the lead inventor, and lists SEC as an  
19 assignee. Counterclaim-Defendants deny that the ’429 Patent was duly and legally issued.  
20 Counterclaim-Defendants admit that, upon the filing of SEC’s counterclaims, they received notice  
21 of the existence of the ’429 Patent. Counterclaim-Defendants deny that SEC’s counterclaims  
22 provide actual notice of specific infringement allegations. As to the remaining allegations of  
23 paragraph 80 of SEC’s counterclaims, Counterclaim-Defendants lack sufficient knowledge or  
24 information to admit or deny such allegations, and so deny those allegations and put SEC to its  
25 strictest proof.  
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20. Counterclaim-Defendants lack sufficient knowledge or information to admit or deny the allegations of paragraph 81 of SEC’s counterclaims, and so deny those allegations and put SEC to its strictest proof.

21. Counterclaim-Defendants deny the allegations of paragraph 82 of SEC’s counterclaims.

22. Counterclaim-Defendants deny the allegations of paragraph 83 of SEC’s counterclaims.

23. Counterclaim-Defendants deny the allegations of paragraph 84 of SEC’s counterclaims.

**RESPONSE TO FOURTH CLAIM FOR RELIEF**  
**(Infringement of U.S. Patent No. 5,173,442 Against ATI)**

24. In response to paragraph 85 of SEC’s counterclaims, ATI incorporates by reference its above responses to paragraphs 62-84 of SEC’s counterclaims as if specifically set forth herein.

25. In response to paragraph 86 of SEC’s counterclaims, ATI admits that, on its face, United States Patent No. 5,173,442 (the “’442 Patent”) shows a title of “Methods of Forming Channels and Vias in Insulating Layers,” shows an issue date of December 22, 1992, names David H. Carey as the inventor, and lists Microelectronics and Computer Technology Corporation as an assignee. ATI denies that the ’442 Patent was duly and legally issued. As to the remaining allegations of paragraph 86 of SEC’s counterclaims, ATI lacks sufficient knowledge or information to admit or deny such allegations, and so denies those allegations and puts SEC to its strictest proof.

26. ATI lacks sufficient knowledge or information to admit or deny the allegation of paragraph 87 of SEC’s counterclaims, and so denies such allegation and puts SEC to its strictest

1 proof.

2 27. In response to paragraph 88 of SEC’s counterclaims, ATI denies that it is  
3 practicing the inventions claimed in the ’442 Patent. ATI lacks sufficient knowledge or  
4 information to admit or deny the remaining allegations of paragraph 88 of SEC’s counterclaims,  
5 and so denies those allegations and puts SEC to its strictest proof.  
6

7 28. ATI denies the allegations of paragraph 89 of SEC’s counterclaims.

8 **RESPONSE TO FIFTH CLAIM FOR RELIEF**

9 **(Infringement of U.S. Patent No. 5,091,339 Against ATI)**

10 29. In response to paragraph 90 of SEC’s counterclaims, ATI incorporates by  
11 reference its above responses to paragraphs 62-89 of SEC’s counterclaims as if specifically set  
12 forth herein.  
13

14 30. In response to paragraph 91 of SEC’s counterclaims, ATI admits that, on its face,  
15 United States Patent No. 5,091,339 (the “’339 Patent”) shows an issue date of February 25, 1992,  
16 names David H. Carey as the inventor, and lists Microelectronics and Computer Technology  
17 Corporation as an assignee. ATI denies that the ’339 Patent was duly and legally issued. As to the  
18 remaining allegations of paragraph 91 of SEC’s counterclaims, ATI lacks sufficient knowledge or  
19 information to admit or deny such allegations, and so denies those allegations and puts SEC to its  
20 strictest proof.  
21

22 31. ATI lacks sufficient knowledge or information to admit or deny the allegation of  
23 paragraph 92 of SEC’s counterclaims, and so denies such allegation and puts SEC to its strictest  
24 proof.

25 32. In response to paragraph 93 of SEC’s counterclaims, ATI denies that it is  
26 practicing the inventions claimed in the ’339 Patent. ATI lacks sufficient knowledge or  
27 information to admit or deny the remaining allegations of paragraph 93 of SEC’s counterclaims,  
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1 and so denies those allegations and puts SEC to its strictest proof.

2 33. ATI denies the allegations of paragraph 94 of SEC’s counterclaims.

3 **RESPONSE TO SIXTH CLAIM FOR RELIEF**  
4 **(Infringement of U.S. Patent No. 5,781,750)**

5  
6 34. In response to paragraph 95 of SEC’s counterclaims, Counterclaim-Defendants  
7 incorporate by reference their above responses to paragraphs 62-94 of SEC’s counterclaims as if  
8 specifically set forth herein.

9 35. In response to paragraph 96 of SEC’s counterclaims, Counterclaim-Defendants  
10 admit that, on its face, United States Patent No. 5,781,750 (the “’750 Patent”) shows a title of  
11 “Dual-Instruction-Set Architecture CPU with Hidden Software Emulation Mode,” shows an issue  
12 date of July 14, 1998, and names James S. Blomgren as the lead inventor. Counterclaim-  
13 Defendants deny that the ’750 Patent was duly and legally issued. As to the remaining allegations  
14 of paragraph 96 of SEC’s counterclaims, Counterclaim-Defendants lack sufficient knowledge or  
15 information to admit or deny such allegations, and so deny those allegations and put SEC to its  
16 strictest proof.  
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18 36. Counterclaim-Defendants lack sufficient knowledge or information to admit or  
19 deny the allegation of paragraph 97 of SEC’s counterclaims, and so deny such allegation and put  
20 SEC to its strictest proof.  
21

22 37. Counterclaim-Defendants deny the allegations of paragraph 98 of SEC’s  
23 counterclaims.

24 38. In response to paragraph 99 of SEC’s counterclaims, Counterclaim-Defendants  
25 admit that AMD had knowledge of the existence of the ’750 Patent prior to this lawsuit.  
26 Counterclaim-Defendants deny actual notice of infringement pursuant to 35 U.S.C. § 287(a).  
27 Counterclaim-Defendants deny the remaining allegations of paragraph 99 of SEC’s  
28

1 counterclaims.

2 39. Counterclaim-Defendants deny the allegations of paragraph 100 of SEC's  
3 counterclaims.

4 40. Counterclaim-Defendants deny the allegations of paragraph 101 of SEC's  
5 counterclaims.  
6

7 **RESPONSE TO SEVENTH CLAIM FOR RELIEF**

8 **(Infringement of U.S. Patent No. 5,470,065)**

9 41. In response to paragraph 102 of SEC's counterclaims, Counterclaim-Defendants  
10 incorporate by reference their above responses to paragraphs 62-101 of SEC's counterclaims as if  
11 specifically set forth herein.

12 42. Counterclaim-Defendants deny the allegations of paragraph 103 of SEC's  
13 counterclaims. On its face, United States Patent No. 5,470,065 shows a title of "Slider Puzzle,"  
14 shows an issue date of November 28, 1995, and names Robert Hilchie as the inventor. Assuming  
15 that SEC intended to recite United States Patent No. 5,740,065, Counterclaim-Defendants admit  
16 that, on its face, U.S. Patent No. 5,740,065 shows a title of "Method for Manufacturing  
17 Semiconductor Device," shows an issue date of April 14, 1998, names Young-Chul Jang as the  
18 lead inventor, and lists SEC as an assignee. Counterclaim-Defendants deny that U.S. Patent No.  
19 5,740,065 was duly and legally issued. As to the remaining allegations of paragraph 103 of SEC's  
20 counterclaims, Counterclaim-Defendants lack sufficient knowledge or information to admit or  
21 deny such allegations, and so deny those allegations and put SEC to its strictest proof.  
22

23 43. Counterclaim-Defendants lack sufficient knowledge or information to admit or  
24 deny the allegations of paragraph 104 of SEC's counterclaims, and so deny those allegations and  
25 put SEC to its strictest proof.  
26

27 44. Counterclaim-Defendants deny the allegations of paragraph 105 of SEC's  
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1 counterclaims.

2 45. Counterclaim-Defendants deny the allegations of paragraph 106 of SEC's  
3 counterclaims.

4 46. Counterclaim-Defendants deny the allegations of paragraph 107 of SEC's  
5 counterclaims.  
6

7 **RESPONSE TO EIGHTH CLAIM FOR RELIEF**

8 **(Infringement of U.S. Patent No. 6,689,648)**

9 47. In response to paragraph 108 of SEC's counterclaims, Counterclaim-Defendants  
10 incorporate by reference their above responses to paragraphs 62-107 of SEC's counterclaims as if  
11 specifically set forth herein.

12 48. In response to paragraph 109 of SEC's counterclaims, Counterclaim-Defendants  
13 admit that, on its face, United States Patent No. 6,689,648 (the "'648 Patent") shows a title of  
14 "Semiconductor Device Having Silicon on Insulator and Fabricating Method Therefor," shows an  
15 issue date of February 10, 2004, names Young-Gun Ko as the lead inventor, and lists SEC as an  
16 assignee. Counterclaim-Defendants deny that the '648 Patent was duly and legally issued. As to  
17 the remaining allegations of paragraph 109 of SEC's counterclaims, Counterclaim-Defendants  
18 lack sufficient knowledge or information to admit or deny such allegations, and so deny those  
19 allegations and put SEC to its strictest proof.  
20

21 49. Counterclaim-Defendants lack sufficient knowledge or information to admit or  
22 deny the allegations of paragraph 110 of SEC's counterclaims, and so deny those allegations and  
23 put SEC to its strictest proof.  
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25 50. Counterclaim-Defendants deny the allegations of paragraph 111 of SEC's  
26 counterclaims.

27 51. Counterclaim-Defendants deny the allegations of paragraph 112 of SEC's  
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counterclaims.

52. Counterclaim-Defendants deny the allegations of paragraph 113 of SEC's counterclaims.

**RESPONSE TO PRAYER FOR RELIEF**

53. Counterclaim-Defendants deny that SEC is entitled to any relief from Counterclaim-Defendants, either as prayed or otherwise.

**FIRST AFFIRMATIVE DEFENSE**

**(Failure to State a Claim)**

54. SEC fails to state a claim upon which relief can be granted.

**SECOND AFFIRMATIVE DEFENSE**

**(Non-Infringement)**

55. Counterclaim-Defendants have not and are not infringing, contributing to the infringement of, and/or inducing infringement of any claim of the Samsung patents-in-suit.

**THIRD AFFIRMATIVE DEFENSE**

**(Non-Infringement of any Valid, Enforceable Claim of the Samsung Patents-in-Suit)**

56. Counterclaim-Defendants have not and are not infringing, contributing to the infringement of, and/or inducing infringement of any valid, enforceable claim of the Samsung patents-in-suit.

**FOURTH AFFIRMATIVE DEFENSE**

**(Invalidity of the Samsung Patents-in-Suit)**

57. The Samsung patents-in-suit are invalid for failure to meet the legal requirements for patentability, including, but not limited to, 35 U.S.C. §§ 102, 103 and/or 112.

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**FIFTH AFFIRMATIVE DEFENSE**

**(Statute of Limitations)**

58. SEC's counterclaims are barred, in whole or in part, by the statute of limitations as set forth in 35 U.S.C. § 286.

**SIXTH AFFIRMATIVE DEFENSE**

**(Laches)**

59. SEC's counterclaims are barred, in whole or in part, by the doctrine of laches.

**SEVENTH AFFIRMATIVE DEFENSE**

**(Estoppel)**

60. SEC's counterclaims are barred, in whole or in part, by the doctrine of estoppel.

**EIGHTH AFFIRMATIVE DEFENSE**

**(Waiver and/or Acquiescence)**

61. SEC's counterclaims are barred, in whole or in part, by the doctrines of waiver and/or acquiescence.

**NINTH AFFIRMATIVE DEFENSE**

**(License)**

62. SEC's counterclaims are barred, in whole or in part, by license.

**TENTH AFFIRMATIVE DEFENSE**

**(Prosecution History Estoppel)**

63. SEC's counterclaims are barred, in whole or in part, under the doctrine of prosecution history estoppel to the extent that SEC alleges infringement under the doctrine of equivalents.

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**ELEVENTH AFFIRMATIVE DEFENSE**

**(Res Judicata and Collateral Estoppel)**

64. SEC’s counterclaims are barred, in whole or in part, by the doctrines of res judicata and/or collateral estoppel.

**COUNTERCLAIM AND DEMAND FOR JURY TRIAL**

Counterclaim-Defendants Advanced Micro Devices, Inc. (“AMD”) and ATI Technologies, ULC (“ATI”) (collectively, “Counterclaim-Defendants”), for their counterclaim against Counterclaim-Plaintiff Samsung Electronics Co., Ltd. (“SEC”), state as follows:

**THE PARTIES**

65. AMD is a Delaware corporation with its principal offices at One AMD Place, Sunnyvale, California 94085.

66. ATI is a subsidiary of AMD and is incorporated in Alberta, Canada with its principal offices at 1 Commerce Valley Drive E, Markham, Ontario, L3T 7X6, Canada.

67. SEC is a Korean business entity with its principal offices at 250, 2-ga, Taepyong-ro, Jung-gu, Seoul, 100-742, South Korea.

**JURISDICTION AND VENUE**

68. This Court has subject matter jurisdiction over this counterclaim pursuant to 28 U.S.C. §§ 1331 (federal question), 1338(a) (patent exclusive jurisdiction), and 2201 and 2202 (declaratory relief).

69. Venue is proper in this district pursuant to 28 U.S.C. §§ 1391(b) and (c) and 1400(b).

1 **FIRST COUNTERCLAIM FOR RELIEF**

2 **(Declaratory Judgment of Invalidity)**

3 70. Counterclaim-Defendants incorporate by reference the allegations set forth in  
4 paragraphs 65-69 above as if specifically set forth herein.

5 71. This is a claim for a declaratory judgment, together with such relief based thereon  
6 as may be necessary or proper, pursuant to the Federal Declaratory Judgment Act, 28 U.S.C. §§  
7 2201 and 2202, and the United States patent laws, 35 U.S.C. § 1, *et seq.*

8 72. SEC alleges that Counterclaim-Defendants infringe United States Patent Nos.  
9 6,407,429, 5,781,750, 5,740,065, and 6,689,648. SEC further alleges that ATI infringes United  
10 States Patent Nos. 5,173,442 and 5,091,339. SEC contends that it is the owner of these patents.

11 73. There is an actual controversy between Counterclaim-Defendants and SEC  
12 regarding the validity of United States Patent Nos. 6,407,429, 5,173,442, 5,091,339, 5,781,750,  
13 5,740,065, and 6,689,648.

14 74. United States Patent Nos. 6,407,429, 5,173,442, 5,091,339, 5,781,750, 5,740,065,  
15 and 6,689,648 are invalid for failure to meet the legal requirements for patentability, including,  
16 but not limited to, 35 U.S.C. §§ 102, 103 and/or 112.

17 75. Counterclaim-Defendants are entitled to a declaratory judgment that United States  
18 Patent Nos. 6,407,429, 5,173,442, 5,091,339, 5,781,750, 5,740,065, and 6,689,648 are invalid.

19 **PRAYER FOR RELIEF**

20 WHEREFORE, Counterclaim-Defendants pray for judgment as follows:

21 a. That SEC take nothing by its counterclaims, that SEC’s counterclaims be  
22 dismissed with prejudice, and that judgment on SEC’s counterclaims be entered in favor of  
23 Counterclaim-Defendants and against SEC;

24 b. That the Court grant Counterclaim-Defendants declaratory judgment that United  
25 States Patent Nos. 6,407,429, 5,173,442, 5,091,339, 5,781,750, 5,740,065, and 6,689,648 are

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invalid;

c. That SEC, its officers, agents, employees, attorneys, and all persons in active concert or participation with them are permanently enjoined from asserting or threatening to assert United States Patent Nos. 6,407,429, 5,173,442, 5,091,339, 5,781,750, 5,740,065, and 6,689,648 against Counterclaim-Defendants or any other person;

d. That the Court adjudge this to be an “exceptional case” and award Counterclaim-Defendants their attorneys’ fees under 35 U.S.C. Section 285;

e. That Counterclaim-Defendants be awarded their costs of suit; and

f. For such other and further relief as this Court deems just and proper.

Respectfully submitted.

DATED: August 1, 2008

**ROBINS, KAPLAN, MILLER & CIRESI L.L.P.**

By: /s/ William H. Manning  
William H. Manning  
Brad P. Engdahl  
Cole M. Fauver

**ATTORNEYS FOR PLAINTIFFS AND  
COUNTERCLAIM-DEFENDANTS  
ADVANCED MICRO DEVICES, INC. AND ATI  
TECHNOLOGIES, ULC**

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**DEMAND FOR JURY TRIAL**

Pursuant to Rule 38 of the Federal Rules of Civil Procedure, Counterclaim-Defendants demand a jury trial as to all matters so triable.

Respectfully submitted.

DATED: August 1, 2008

**ROBINS, KAPLAN, MILLER & CIRESI L.L.P.**

By: /s/ William H. Manning  
William H. Manning  
Brad P. Engdahl  
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