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To the Director of the U.S. Patent and Trademark Office: Pleas	se record the attached documents or the new address(es) below.		
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)		
Kyu-Hyoun Kim	Name: Samsung Electronics Co., Ltd		
Chang-Hyun Kim	Internal Address:		
	PT		
Execution Date(s) September 29, 2005	Street Address: 446 Market day		
Additional name(s) of conveying party(ies) attached? Yes V	Street Address: 416, Maetan-dong,		
3. Nature of conveyance:	Street Address: 416, Maetan-dong,		
Assignment Merger	City: Suwon-si, Gyeonggi-do		
Security Agreement Change of Name	State:		
Government Interest Assignment	Country: Republic of Korea Zip: Additional name(s) & address(es) attached? Yes Vo		
Executive Order 9424, Confirmatory License			
Other			
4. Application or patent number(s):	document is being filed together with a new application.		
A. Patent Application No.(s)	B. Patent No.(s)		
Additional numbers at	tached? Yes No		
5. Name and address to whom correspondence	6. Total number of applications and patents		
concerning document should be mailed:	involved: 1		
Name: Steven M. Mills	7. Total fee (37 CFR 1.21(h) & 3.41) \$_40.00		
Internal Address:	Authorized to be charged by credit card		
	Authorized to be charged to deposit account		
Street Address; Mills & Onello LLP	✓ EnclosedNone required (government interest not affecting title)		
Eleven Beacon Street, 605			
City: Boston	8. Payment Information		
State: Massachusetts Zip: 02108	a. Credit Card Last 4 Numbers Expiration Date		
Phone Number: (617) 994-4900			
Fax Number: (617) 742-7774	b. Deposit Account Number Authorized User Name		
Email Address: mail@millsonello.com			
9. Signature: Stewall (1)	10/15/05		
Signature	Date		
Steven M. Mills, Registration No. 36,610	Total number of pages including cover 3		

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
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10/31/2005 ECOOPER 00000078 11258565 01 FC:8021 40.00 OP

REEL: 017147 FRAME: 0942

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Reference No.: SAM-0770

ASSIGNMENT

We, Kyu-Hyoun Kim, of 811-606, Hanshin Apt., Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea and Chang-Hyun Kim, of 301-504, Yangji Maeul Kumho Apt., Sunaedong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, having invented improvements in SEMICONDUCTOR MEMORY DEVICE described in an application for Letters Patent of the United States, executed by us on even date herewith, for good and valuable consideration, receipt of which is hereby acknowledged from Samsung Electronics Co., Ltd., a Korean corporation having a place of business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (and hereinafter called the Assignee, which term shall include its successors and assigns), do hereby sell, assign and transfer unto the Assignee our entire right, title, and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to and under said application (which term shall include hereinafter where the context so admits all divisional, continuing, reissue and other patent applications based thereon) and the inventions (which term shall include each and every such invention, or part thereof) therein described, and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on or for said inventions or on said application;

And for the same consideration We do also hereby sell, assign, and transfer unto the Assignee, all our rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, and all other treaties of like purpose in respect of said inventions and said application, and We do hereby authorize the Assignee to apply in our name or its own name or its designee for patents and like rights of exclusion on or for said inventions in all countries, claiming (if the Assignee so desires) the priority of the filing date of said application under the provisions of said Convention, Treaty or any such other Convention or Treaty;

And for the same consideration, We do hereby agree for ourselves and for our heirs, executors, and administrators, promptly upon request of the Assignee to execute and deliver without further compensation any power of attorney, assignment, original, divisional, continuing, reissue or other application or applications for patent or patents or like rights of exclusion of any country, or other lawful documents and any further assurances that may be deemed necessary or desirable by the Assignee, fully to secure to it said right, title, and interest as aforesaid in and to said inventions, applications, and said several patents and like rights of exclusion (including extensions thereof) or any of them, all, however, at the expense of the Assignee, its successors, or assigns:

And We do hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding Official of each country foreign thereto to issue to the Assignee, any and all patents and like rights of exclusion which may be granted in any country upon said United States application on or for said inventions;

And We do hereby covenant for ourselves and our legal representatives and agree with the Assignee, that We have granted no right or license to make, use, or sell said inventions to anyone except the Assignee, that prior to the execution of this deed our right, title, and interest in and to said inventions has not been otherwise encumbered by us, and that We have not executed and will not execute any instruments in conflict herewith.

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PATENT

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Reference No.: SAM-0770

First or Sole Inventor:

Signature:

Date: Sep. 29+h, 2005

Second Joint Inventor:

Signature:

Chang-Hyun Kim

Date: Sep., 29th, 2005

REFERENCE NO.: SAM-0770 J:SAM0770 and grants wild

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