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LIMITED LIABILITY AMENDMENT

RENAISSANCE TECHNOLOGIES, LLC

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AMENDED AND RESTATED ARTICLES OF ORGANIZATION OF RENAISSANCE TECHNOLOGIES, LLC

The undersigned, acting as an authorized representative of a member of Renaissance Technologies, LLC, a Florida limited liability company (the "Company"), whose Articles of Organization were originally filed with the Florida Department of State on July 21, 2004, adopts the following Amended and Restated Articles of Organization of the Company:

ARTICLE I Name

The name of the Company is Renaissance Technologies, LLC.

ARTICLE II Principal Office and Mailing Address

The principal office and mailing address of the Company is 14101 Race Track Road, Tampa, Florida 33626.

ARTICLE III Registered Agent and Office

The street address of the initial registered office of the Company is William L. Bishop, 14101 Race Track Road, Tampa, Florida 33626.

These Amended and Restated Articles of Organization are being filed pursuant to Section

Hunter J. Brownlee

Authorized Representative

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