CLAIMS

1. A contact lens or implantable ophthalmic lens comprising:
a first surface having a predetermined sphere power for correction of a refractive error of a patient; and
an atoric second surface, disposed opposite the first surface,
wherein the second surface comprises a first conic constant along a first meridian and a second conic constant along a second meridian,
wherein the first meridian is orthogonal to the second meridian,
wherein the lens is configured to exhibit a first target spherical aberration that is less than zero along the first meridian and a second target spherical aberration that is less than zero along the second meridian,
wherein the first target spherical aberration along the first meridian is configured based on correction of a target ocular primary astigmatism and spherical aberration level of the patient, and the target spherical aberration along the second meridian is configured based on correction of an inverse of a target ocular secondary astigmatism level of the patient.

2. The lens according to claim 1, wherein the first surface comprises one of an aspherical surface, a spherical surface, or a diffractive surface.

3 The lens according to claim 1, wherein the ophthalmic lens has a spherical power from -9D to +6D.

4. The lens according to claim 1, wherein the ophthalmic lens has a cylindrical power from -0.75D to -3.25D.

5. The lens according to claim 1, wherein the first meridian is a sphere meridian and the second meridian is a cylinder meridian.

6. The lens according to claim 1, wherein the second target spherical aberration along the second meridian is.001D/mm^2.

7. The lens according to claim 1, wherein the second target spherical aberration along the second meridian is.05D/mm^2 and the ophthalmic lens is configured to exhibit a cylindrical optical power of -3.25D.

8. The lens according to claim 1, wherein the second target spherical aberration along the second meridian is.04D/mm^2 and the ophthalmic lens is configured to exhibit a cylindrical optical power of between -2.75D and -3.25D.

9, The lens according to claim 1, wherein the second target spherical aberration along the second meridian is.002D/mm^2 and the ophthalmic lens is configured to exhibit a cylindrical optical power of between -1.75D and -3.25D.

10. The lens according to claim 1, wherein the second target spherical aberration along the second meridian is.001D/mm^2 spherical aberration along the second meridian and the ophthalmic lens is configured to exhibit a cylindrical optical power of between -0.75D and -3.25D.

11. The lens according to claim 1, wherein the second target spherical aberration along the second meridian is an inverse of the target ocular secondary astigmatism level.